THE RESIDENCES @ SHORELINE GATEWAY

Draft Environmental Impact Report Appendices

SCH #2018092028

Prepared by
City of Mountain View

September 2019

In conjunction with
Environmental Science Associates



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CITY OF MOUNTAIN VIEW

In conjunction with
Environmental Science Associates

ESA

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Draft Environmental Impact Report Appendices

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Appendix A

Notice of Preparation, Scoping Meeting Materials, and Scoping Comments

CITY OF MOUNTAIN VIEW

To: State Agencies
Responsible Agencies
Local and Public Agencies
Trustee Agencies
Interested Parties

From: Clarissa Burke, Associate Planner
City of Mountain View
Community Development Department
500 Castro Street, P.O. Box 7540
Mountain View, CA 94039-7540

NOTICE OF PREPARATION
OF AN ENVIRONMENTAL IMPACT REPORT FOR
THE RESIDENCES @ SHORELINE GATEWAY

As the Lead Agency, the City of Mountain View will prepare an Environmental Impact Report (EIR) for the above referenced project and would like your input regarding the scope and content of the environmental information to be addressed in the EIR. The project description, location, and a brief summary of potential environmental effects are attached.

A Public Scoping Meeting will be held on **Wednesday, September 26, 2018 at 4:00 p.m.** to take comments regarding the scope and content of the Draft EIR. The Scoping Meeting will be held at Mountain View City Hall, 500 Castro Street, Mountain View.

Per State law, the deadline for your response is 30 days after receipt of this notice; however, we would appreciate an earlier response, if possible. The comment period is September 13, 2018 to October 15, 2018. Written comments will be accepted until Monday, October 15, 2018 at 5:00 p.m.

Please identify a contact person, and send your response to:

City of Mountain View
Community Development Department
Attention: Clarissa Burke, Associate Planner
500 Castro Street, P.O. Box 7540
Mountain View, CA 94039-7540
(650) 903-6306
Clarissa.Burke@mountainview.gov

Clarissa Burke, Associate Planner
Community Development Department

CBurke

Date: September 11, 2018

NOTICE OF PREPARATION
OF AN ENVIRONMENTAL IMPACT REPORT FOR
THE RESIDENCES @ SHORELINE GATEWAY

A. 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. The EIR process is intended to provide environmental information sufficient to evaluate a proposed project and its potential for significant impacts on the environment; to examine methods of reducing adverse environmental impacts; and to consider alternatives to the project. Upon finding the EIR complete and compliant with the California Environmental Quality Act (CEQA) of 1970, as amended, the City Council will consider certification of the EIR at a public hearing and may take action on the proposed Residences @ Shoreline Gateway Project (Project). Certification of an EIR does not constitute Project approval.

The City of Mountain View determined that analysis of the environmental effects of the Project buildout is best provided through use of an EIR. The EIR for the Project will be prepared and processed in accordance with CEQA, and will include:

- 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) the growth-inducing impacts of the proposed Project; and (c) cumulative impacts.

B. PROJECT LOCATION

The Project site is located at 1001 North Shoreline Boulevard at the corner of North Shoreline Boulevard and Terra Bella Avenue, south of U.S. Highway 101 (U.S. 101) in the north central portion of the City of Mountain View (City), in northern Santa Clara County. The 7.81-acre Project site includes two parcels (APNs 153-15-032 and 153-15-033) generally bounded by North Shoreline Boulevard on the west, Terra Bella Avenue on the south, Linda Vista Avenue on the east and U.S. Highway 101 (U.S. 101) on the north.

Existing uses at the Project site include an approximately 111,443-square foot four-story office building and associated features, including a surface parking lot, landscaping, and outdoor private recreational amenity space.

Location and vicinity maps of the Project site are attached to this NOP as Figures 1 and 2. A Project Illustrative Site Plan is attached to this NOP as Figure 3.

C. DESCRIPTION OF THE PROJECT

The Project applicant proposes to remove existing surface parking, landscaping, and private recreation areas and construct three new buildings with recreation facilities and common amenity space in these areas.

The Project would include a new, seven- to eight-story residential structure with approximately 3,000 square feet of ground floor retail, two levels of podium parking and 203 apartment units; and a new, seven-story residential structure with two levels of podium parking and 100 condominium units, to the north and east of the existing office building. The existing office building would remain at the site. The Project would also include a six-story parking structure to accommodate parking for the existing office building.

The Project would include the following City actions, which will be analyzed in the EIR:

- **2030 General Plan Text and Map Amendment.** The Project would require text and map amendments to the City of Mountain View 2030 General Plan to change the Project site land use designation from *General Industrial* to *Mixed-Use Center*. This would allow the addition of the Project's residential uses in the Moffett/Whisman Planning Area.
- **Rezoning.** The Project would also require changing the existing Zoning Ordinance and Map designation of *General Industrial* (MM) on the eastern portion of the Project site and *Limited Industrial* (ML) on the western portion of the Project site, to *Planned Community* (P) for the entire site.
- **Planned Community Permit.**
- **Development Review Permit.**
- **Heritage Tree Removal Permit.**
- **Vesting Tentative Subdivision Map.**

D. ENVIRONMENTAL EFFECTS OF THE PROJECT

The EIR will address potential environmental effects of the Project in the following areas:

- Aesthetics
- Air Quality
- Biological Resources
- Cultural Resources
- Energy
- Geology/Soils
- Greenhouse Gas Emissions
- Hazards and Hazardous Materials
- Hydrology/Water Quality
- Land Use
- Noise
- Population/Housing
- Public Services
- Recreation
- Transportation
- Utilities and Service Systems

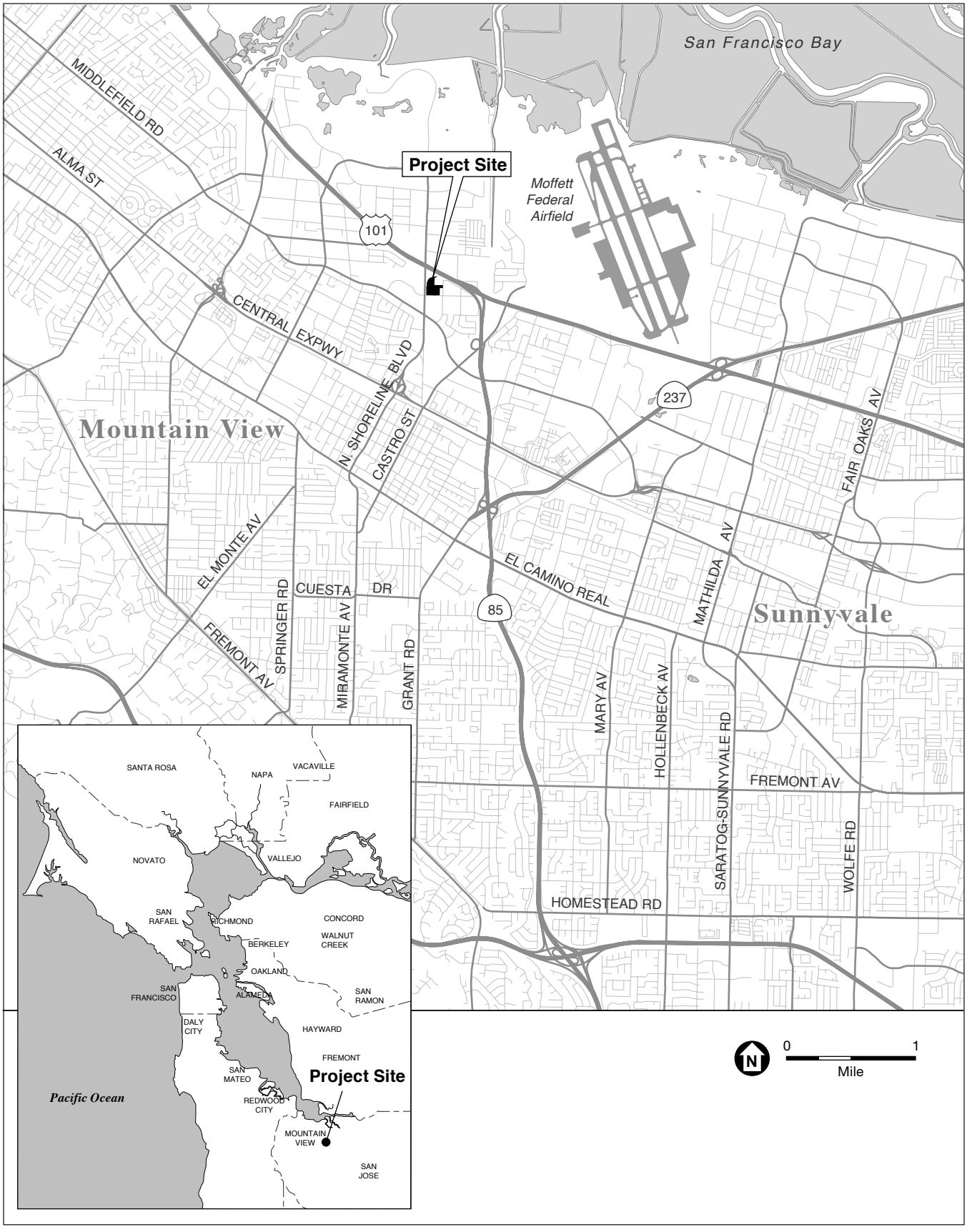
E. SCOPING COMMENTS

We are requesting your input on the scope and content of the environmental information appropriate to your agency's statutory responsibilities or of interest to your organization; specifically, we are requesting the following:

1. Identify significant environmental effects and/or mitigation measures you believe need to be explored in the EIR with supporting discussion of why you believe effects may be significant.
2. Describe special studies and other information you believe are necessary for the City to analyze the significant environmental effects, alternatives, and mitigation measures you have identified.
3. For public agencies that provide infrastructure and public services, identify any facilities that will be required to provide services to the Project development.
4. Indicate whether staff from your agency would like to meet with City staff to discuss the scope and content of the EIR's environmental information;
5. Provide the name, title, telephone number, postal address, and email address of the contact person from your agency or organization that we can contact regarding your comments; and
6. Identify alternatives you believe need to be explored in further detail in the EIR.

Comments may be sent to:

Clarissa Burke, Associate Planner
City of Mountain View
Community Development Department
500 Castro Street, P.O. Box 7540
Mountain View, CA 94039-7540
(650) 903-6306
Clarissa.Burke@mountainview.gov



D170621

SOURCE: ESA, 2017

Residences @ Shoreline Gateway Project

Figure 1
Project Site Location

ESA



D170621

SOURCE: Studio T Square

Residences @ Shoreline Gateway Project

Figure 2
Project Vicinity

ESA



SOURCE: Studio T Square

Residences @ Shoreline Gateway Project

Figure 3
Project Illustrative Site Plan

ESA

CITY OF MOUNTAIN VIEW

1001 N. SHORELINE BOULEVARD PROJECT
ENVIRONMENTAL IMPACT REPORT (EIR)
PUBLIC SCOPING MEETING

PLAZA CONFERENCE ROOM, 2ND FLOOR
SEPTEMBER 26, 2018, 4:00 PM

AGENDA

1.	Welcome, Introductions, and Brief Project Overview	Clarissa Burke, Project Planner
2.	Environmental Review/Environmental Impact Report (EIR) Process • What is an EIR? • Why an EIR is being prepared • EIR review and adoption process • Scoping and environmental issues to be addressed in the EIR • Opportunities for public participation	Jill Feyk-Miney, Deputy Project Manager, ESA
3.	Questions/Public Comments on the Scope of the EIR	

If you would like to receive a copy of the Notice of Availability of the Draft EIR for this project, please indicate on a Response Card at tonight's meeting or contact Clarissa Burke at clarissa.burke@mountainview.gov.

CITY OF MOUNTAIN VIEW

ENVIRONMENTAL REVIEW PROCESS AND OPPORTUNITIES FOR PUBLIC PARTICIPATION

∗ = Opportunities for public involvement in EIR process

PUBLIC SCOPING PROCESS

Notice of Preparation of an EIR* **(September 13 – October 15, 2018)**

30 day comment period – agencies and the public can provide written comments on what issues should be addressed in the EIR

Public Scoping Meeting* **(September 26, 2018)**

Agencies and the public can provide written or oral comments on what issues should be addressed in the EIR

EIR PREPARATION AND REVIEW

Draft EIR -- 45-day public review period * **(Spring 2019)**

Agencies and the public can review the Draft EIR and provide comments on the adequacy of the environmental analysis and provide additional information

Opportunity for public to provide oral comments at a public comment meeting during circulation of the Draft EIR

The Draft EIR will be available in public libraries as well as on the City of Mountain View's website

Responses to Comments – Final EIR **(Summer 2019)**

The Final EIR consists of the Draft EIR, responses to comments received on the Draft EIR, and revisions to the text of the Draft EIR.

Provided to commenters a minimum of 10 days before EIR certification date

Public Hearings * **(Summer - Fall 2019)**

Certification of the Final EIR

Opportunity for public testimony on the contents of the EIR at hearing

Decision on Project

Opportunity for public testimony on the merits of the project at hearing
Notice of Determination – establishes Statute of Limitations

CITY OF MOUNTAIN VIEW

1001 N. Shoreline Blvd. Project
EIR Scoping Meeting
Wednesday, September 26, 2018

PUBLIC COMMENT CARD

The City of Mountain View will prepare an Environmental Impact Report (EIR) for the above referenced project and would like your views regarding the scope and content of the environmental information to be addressed in the EIR.

Written comments on the scope and content of the EIR will be accepted until **October 15, 2018**. Please turn in a completed comment card or send written comments to:

Clarissa Burke, Planner
Community Development Dept.
City of Mountain View
500 Castro Street
P.O. Box 7540
Mountain View, CA 94039
clarissa.burke@mountainview.gov

Name: _____ Email: _____

Address: _____ Phone: _____

COMMENTS:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

PLEASE PRINT CLEARLY. PLEASE NOTE THAT ALL COMMENTS BECOME PART OF THE PUBLIC RECORD.

CITY OF MOUNTAIN VIEW

EIR Scoping Meeting

1001 N. Shoreline Blvd. Project

September 26, 2018

CITY OF MOUNTAIN VIEW

Welcome and Introductions:

- **Clarissa Burke, Planner, Comm. Dev. Department, City of Mountain View**
- **John Schwarz, Consulting Planner**
- **Elizabeth Kanner, Sr. Managing Associate, ESA**
- **Jill Feyk-Miney, Associate, ESA**

CITY OF MOUNTAIN VIEW

Purpose of a Scoping Meeting:

- To provide an overview of the environmental review process
- To solicit written comments regarding the scope of the environmental analysis for the 1001 N. Shoreline Blvd. Project

CITY OF MOUNTAIN VIEW

Agenda:

- Project Overview
- Purpose of the California Environmental Quality Act (CEQA) and the Environmental Impact Report (EIR)
- CEQA Process
- Public Comments on Scope of EIR
- Resource Topic Analysis in EIR
- Anticipated Schedule and Next Steps
- How to Provide a Scoping Comment

CITY OF MOUNTAIN VIEW

Project Site:

- 7.81 acres

- Current Designations:
  - GP: General Industrial
  - Zoning: MM (General Industrial) & ML (Limited Industrial)



- Existing Office Building, parking, & landscaping

CITY OF MOUNTAIN VIEW

Project Overview:

- 203 apartment units within 7-8 story residential building
  - with ~3,000 square feet (sf) of retail
  - 2 levels of podium parking
- 100 condominium units within 7-story structure
  - 2 levels of podium parking
- Existing Office Bldg. to remain
- General Plan Amendment to *Mixed-Use Center*
- Rezoning to *Planned Community (P)* Zoning District

CITY OF MOUNTAIN VIEW



CITY OF MOUNTAIN VIEW



View from Terra Bella Ave. looking northeast



View of southeast corner of site from Terra Bella Ave. looking northwest

CITY OF MOUNTAIN VIEW



View from Linda Vista Ave. looking west



View from Shorline Blvd. looking northeast

CITY OF MOUNTAIN VIEW

Purpose of CEQA and the EIR:

- INFORM decision-makers and public of the project's potential environmental effects
- ENGAGE the public in environmental review process
- DISCLOSE potential project impacts on the environment
- AVOID and/or REDUCE potential impacts of the projects with alternatives and/or mitigation measures

CITY OF MOUNTAIN VIEW

CEQA Process:

1. Notice of Preparation (NOP)

- 30-day public review and comment period (9/13/2018 through 10/15/2018)
- Public scoping meeting

2. Prepare & Publish Draft EIR

- 45-day public review and comment period

3. Prepare & Publish Final EIR

- Response to comments on Draft EIR
- Corrections or clarifications to Draft EIR

4. City Considers Final EIR and Project

- Environmental Planning Commission (EPC) recommendation
- City Council consideration and action

CITY OF MOUNTAIN VIEW

Public Comments on Scope of EIR:

- ❑ Range of Environmental Topics
- ❑ Specific Issues of Concern
- ❑ Approaches to Conducting Certain Analysis
- ❑ Potential Alternatives to the Project
- ❑ Other Environmental Considerations

- ***"I request that the Project EIR consider…"***

CITY OF MOUNTAIN VIEW

Resource Topic Analysis in EIR:

- Aesthetics
- Air Quality
- Biological Resources
- Cultural Resources
- Energy
- Geology/Soils
- Greenhouse Gas Emissions
- Hazards and Hazardous Materials
- Hydrology/Water Quality
- Land Use
- Noise
- Population/Housing
- Public Services
- Recreation
- Transportation
- Utilities and Service Systems

CITY OF MOUNTAIN VIEW

Anticipated Schedule and Next Steps:

- Notice of Preparation: September-October 2018
- Draft EIR Available: Spring 2019
- Final EIR Available: Early Summer 2019
- EIR Hearings: Late Summer-Early Fall 2019

CITY OF MOUNTAIN VIEW

How to Provide a Scoping Comment:

- Verbal or Written Comment at Scoping Meeting
- Email: Clarissa.Burke@mountainview.gov
- Mail:

  Clarissa Burke, Planner
  City of Mountain View, Community Development Department
  P.O. Box 7540
  Mountain View, CA 94039-7540
- *Comments on NOP due* ***Monday, October 15, 2018***

COMMENT CARD FOR: ☐ EPC ☐ ZA ☐ DRC

ITEM NO. 4.3 DATE: 9/26/18

SPEAKER NAME: CRAIG NOAH

CHECK ALL THAT APPLY: (OPTIONAL)
- ☑ Mountain View Resident
- ☐ Employed in Mountain View
  - Company Name_____
- ☐ Representing Organization
  - Org. Name_____

To receive future public notices on this item please fill in your mailing address below:

ADDRESS: 881 SAN ARDO WAY

CITY: MOUNTAIN VIEW ZIP: 94043

*Please return this form to City Staff after you provide comment(s)

COMMENT CARD FOR: ☐ EPC ☑ ZA ☐ DRC

ITEM NO. 4.3 DATE: 9/26/18

SPEAKER NAME: Albert Jeans

CHECK ALL THAT APPLY: (OPTIONAL)
- ☑ Mountain View Resident
- ☐ Employed in Mountain View
  - Company Name_____
- ☐ Representing Organization
  - Org. Name_____

To receive future public notices on this item please fill in your mailing address below:

ADDRESS: 820 San Lucas Ave.

CITY: Mountain View ZIP: 94043

*Please return this form to City Staff after you provide comment(s)

COMMENT CARD FOR: ☐ EPC ☐ ZA ☐ DRC

ITEM NO. 4.3 DATE: Sept 26, 2018

SPEAKER NAME: Joseph A. Metzger

CHECK ALL THAT APPLY: (OPTIONAL)
- ☑ Mountain View Resident
- ☐ Employed in Mountain View
  Company Name_____
- ☐ Representing Organization
  Org. Name_____

To receive future public notices on this item please fill in your mailing address below:

ADDRESS: 765 San Carlos Ave

CITY: Mtn. View ZIP: 94043

*Please return this form to City Staff after you provide comment(s)

COMMENT CARD FOR: ☐ EPC ☐ ZA ☐ DRC

ITEM NO. 4.3 DATE: _____

SPEAKER NAME: Dennis Goldwater

CHECK ALL THAT APPLY: (OPTIONAL)
- ☑ Mountain View Resident
- ☐ Employed in Mountain View
  Company Name_____
- ☐ Representing Organization
  Org. Name_____

To receive future public notices on this item please fill in your mailing address below:

ADDRESS: 881 San Lucas Ave

CITY: MV ZIP: 94043

*Please return this form to City Staff after you provide comment(s)

COMMENT CARD FOR: ☐ EPC ☐ ZA ☐ DRC

ITEM NO. 4.3 DATE: 9/26/18

SPEAKER NAME: Laura Stelzner

CHECK ALL THAT APPLY: (OPTIONAL)
- ☑ Mountain View Resident
- ☐ Employed in Mountain View
  - Company Name_____
- ☐ Representing Organization
  - Org. Name_____

To receive future public notices on this item please fill in your mailing address below:

ADDRESS: 740 San Pablo Dr.

CITY: Mountain View ZIP: 94043

*Please return this form to City Staff after you provide comment(s)

COMMENT CARD FOR: ☐ EPC ☐ ZA ☐ DRC

ITEM NO. 4.3 DATE: 9-26-18

SPEAKER NAME: James Knight

CHECK ALL THAT APPLY: (OPTIONAL)
- ☑ Mountain View Resident
- ☐ Employed in Mountain View
  - Company Name_____
- ☐ Representing Organization
  - Org. Name_____

To receive future public notices on this item please fill in your mailing address below:

ADDRESS: 735 San Pablo Dr.

CITY: Mt View ZIP: 94043

*Please return this form to City Staff after you provide comment(s)

DEAR SIR,

THIS IS MR. CASUGA OF 879 SAN ARDO WAY, MT. VIEW, CA. 94043. WITH REGARD TO YOUR PROJECT LOCATED AT 1001 NORTH SHORELINE BLD. OR THE DRAFT OF EIR, I HAVE NO COMMENTS ON THAT PROPOSED PROJECT. JUST GO ON. THANK YOU.

RECEIVED
OCT 05 2018
Community Development

CITY OF MOUNTAIN VIEW

1001 N. Shoreline Blvd. Project
EIR Scoping Meeting
Wednesday, September 26, 2018

PUBLIC COMMENT CARD

The City of Mountain View will prepare an Environmental Impact Report (EIR) for the above referenced project and would like your views regarding the scope and content of the environmental information to be addressed in the EIR.

Written comments on the scope and content of the EIR will be accepted until **October 15, 2018.** Please turn in a completed comment card or send written comments to:

Clarissa Burke, Planner
Community Development Dept.
City of Mountain View
500 Castro Street
P.O. Box 7540
Mountain View, CA 94039
clarissa.burke@mountainview.gov

Name: Fangfang Tan Email: tff626@hotmail.com

Address: 793 San Carlos Ave, MTV Phone: 650-450-6026

COMMENTS:

The EIR report should consider:

privacy 1) impact of high-story buildings to privacy of the neighborhood right next to it;

traffic 2) the potential negative impact on traffic to the SFH residents in the San Carlos / Pablo / Rafel Aves.

Safety 3) the potential concern on safety.

green space 4) potential loss in public facilities such as green space.

PLEASE PRINT CLEARLY. PLEASE NOTE THAT ALL COMMENTS BECOME PART OF THE PUBLIC RECORD.

CITY OF MOUNTAIN VIEW

1001 N. Shoreline Blvd. Project
EIR Scoping Meeting
Wednesday, September 26, 2018

PUBLIC COMMENT CARD

The City of Mountain View will prepare an Environmental Impact Report (EIR) for the above referenced project and would like your views regarding the scope and content of the environmental information to be addressed in the EIR.

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Clarissa Burke, Planner
Community Development Dept.
City of Mountain View
500 Castro Street
P.O. Box 7540
Mountain View, CA 94039
clarissa.burke@mountainview.gov

Name: Weili Liu Email: williamliu-sea@hotmail.com

Address: 793 San Carlos Ave, Mountain View, CA 94043 Phone: 4259988820

COMMENTS:

1. the number of parking space shall consider the max capacity of the new development. The parking structure must be built before ~~the~~ any structure that will increase ~~per~~ need for parking.
2. need more green space/park. The sqft of park per resident ratio shall be the same if not more than the current ratio.
3. no high-rise builds that can look into other people's backyard ~~Pri~~ Respect privacy of existing residents.
4. traffic capacity improvement project shall be done before new development completes.

PLEASE PRINT CLEARLY. PLEASE NOTE THAT ALL COMMENTS BECOME PART OF THE PUBLIC RECORD.

DEPARTMENT OF TRANSPORTATION
DISTRICT 4
OFFICE OF TRANSIT AND COMMUNITY PLANNING
P.O. BOX 23660, MS-10D
OAKLAND, CA 94623-0660
PHONE (510) 286-5528
FAX (510) 286-5559
TTY 711
www.dot.ca.gov

Making Conservation a California Way of Life

October 11, 2018

SCH# 2018092028
GTS # 04-SCL-2018-00474
GTS I.D. 12661
SCL - 101 - 48.462

Clarissa Burke
Community Development Department
City of Mountain View
500 Castro Street, P.O. Box 7540
Mountain View, CA 94039-7540

The Residences @ Shoreline Gateway– Notice of Preparation

Dear Clarissa Burke:

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the above referenced project. Our comments are based on the Notice of Preparation (NOP).

Project Understanding
The project applicant proposes to remove existing surface parking, landscaping, and private recreation areas and construct three new buildings with recreation facilities and common amenity space. A total of 303 residential units are proposed. The Project would include a new, seven- to eight-story residential structure with approximately 3,000 square feet of ground floor retail, two levels of podium parking and 203 apartment units. A new seven-story residential structure with two levels of podium parking and 100 condominium units would be constructed to the north and east of the existing office building. The existing office building would remain at the site. The project would also include a six-story parking structure to accommodate parking for the existing office building. The project is adjacent to the US 101 / N Shoreline Boulevard interchange.

Project Description
Please clarify the number of parking spaces proposed by the project and incorporate Transportation Demand Management strategies.

Cultural Resources
As part of the environmental review for the proposed project, pursuant to California Environmental Quality Act (CEQA) Guidelines Section 15064.5, we recommend that the City of Mountain View conduct a cultural resource technical study that at a minimum includes a records search at the Northwest Information Center of the California Historical Resources Information

System (CHRIS), a field survey of the project area by a qualified archaeologist and a qualified architectural historian, and Native American consultation.

If an encroachment permit is needed for work within Caltrans right-of-way, we may require that cultural resource technical studies be prepared in compliance with CEQA, Public Resources Code (PRC) 5024, and the Caltrans Standard Environmental Reference (SER) Chapter 2 (http://www.dot.ca.gov/ser/vol2/vol2.htm). Should ground-disturbing activities take place within Caltrans right-of-way and there is an inadvertent archaeological or burial discovery, in compliance with CEQA, PRC 5024.5, and the SER, all construction within 60 feet of the find shall cease and the Caltrans District 4 Office of Cultural Resource Studies (OCRS) shall be immediately contacted.

Encroachment Permit
Please be advised that any work or traffic control that encroaches onto the state right-of-way requires an encroachment permit that is issued by the Department. To apply, a completed encroachment permit application, environmental documentation, and six (6) sets of plans clearly indicating state right-of-way must be submitted to: Office of Permits, California DOT, District 4, P.O. Box 23660, Oakland, CA 94623-0660. To download the permit application and obtain more information, visit http://www.dot.ca.gov/hq/traffops/developserv/permits/.

Lead Agency
As the Lead Agency, the City of Mountain View is responsible for all project mitigation, including any needed improvements to the STN. The project's fair share contribution, financing, scheduling, implementation responsibilities and lead agency monitoring should be fully discussed for all proposed mitigation measures.

Thank you again for including Caltrans in the environmental review process. Should you have any questions regarding this letter, please contact Jannette Ramirez at (510) 286-5535 or jannette.ramirez@dot.ca.gov.

Sincerely,

PATRICIA MAURICE
District Branch Chief
Local Development - Intergovernmental Review

c: State Clearinghouse

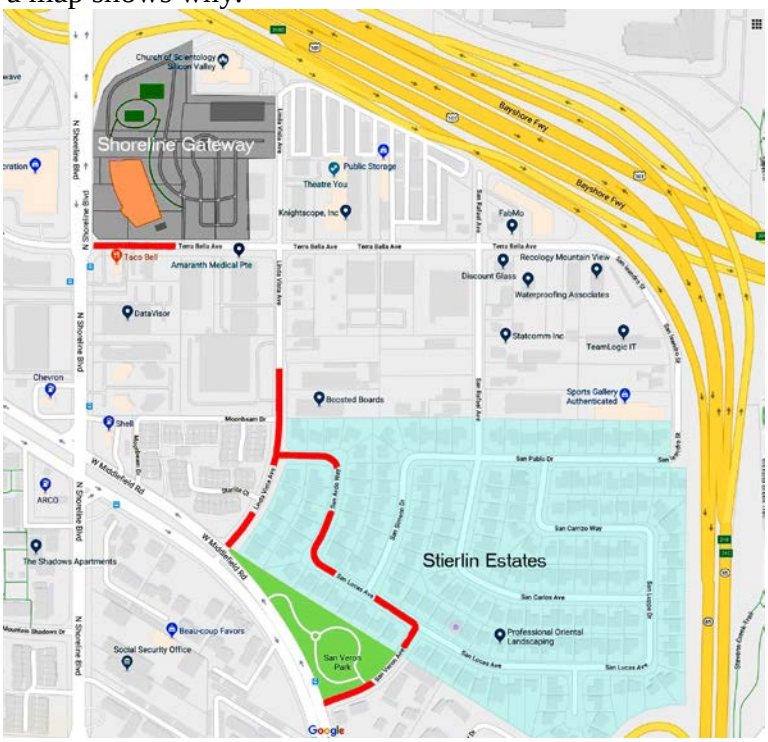
To: Clarissa Burke, Project Planner

From: Albert Jeans
820 San Lucas Ave.
Mountain View, CA 94043
email: ajeans2@gmail.com
tel: (650) 575-4917

Re: 1001 N. Shoreline "Shoreline Gateway"

There are a number of questions that must be answered before this project is allowed to go ahead. At a very high level, the City is currently formulating a vision for the Terra Bella area, to be followed by a Precise Plan which will guide future development in the area. How can the City allow such a massive project to go ahead which may be in conflict with the eventual plans for the area? Ironically, the placement of this project at one of the few gateways to the Terra Bella area may actually limit future development further due to traffic issues. It would seem to be prudent to put the project on hold until the Precise Plan has been established. There are two nearby significant projects which must be taken into account when planning this one: 777 W. Middlefield (Village Lakes) which plans to build 711 apartments to replace the 208 existing ones, and 555 W. Middlefield (Avalon Eaves) which plans to add 341 apartments to the 402 existing. The combination of all three projects would significantly impact traffic, schools and infrastructure and must be addressed in the Precise Plan.

Traffic is indeed one of the main concerns residents such as myself in the nearby Stierlin Estates neighborhood have with this and other large scale developments in the east Terra Bella area, and a map shows why.

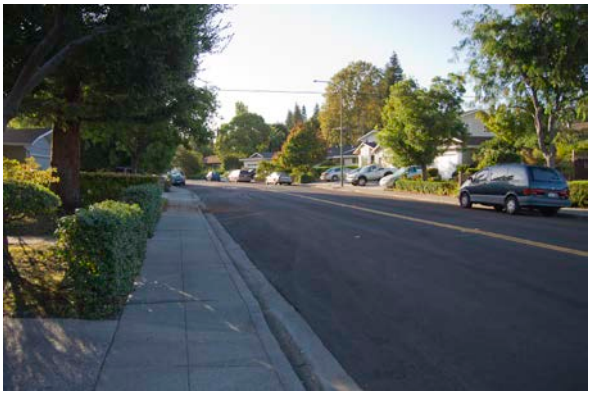


There are only 3 streets, shown in red, leading into and out of the area: Terra Bella, Linda Vista, and San Veron, and the latter two are limited because they connect with Middlefield Rd. which is divided and non-signaled. It is well known that Shoreline Blvd. is heavily congested during the morning rush hour between 8:30am and 10am, and the intersection at Terra Bella Ave. is already a choke point because a lot of drivers choose to make a U-turn there to get onto northbound Shoreline. Adding more drivers trying to come out of Terra Bella will delay traffic on Shoreline even further. In addition, the future reversible bus lane will remove the left turn pocket for southbound highway 85, forcing drivers to use Moffett Blvd. instead. It will be easier for drivers to use Linda Vista and San Veron to get onto eastbound Middlefield to get to Moffett, adding to traffic cutting through Stierlin Estates.

Through traffic is a big safety concern as the number of young families with children increases in the neighborhood. San Veron in particular passes by San Veron Park which has a children's play area. Children have to cross Shoreline Blvd. to reach neighborhood schools. More traffic and more children from the proposed development will make that even more dangerous. A detailed traffic study including surveys and simulation should be done to assess the impact the project will have on local traffic. In particular, I ask that *current* traffic conditions be compared with the study done 3 years ago for the office building at 1001 N. Shoreline to test the validity of that study, and hence, future studies.

Parking is another hot button for current residents. I frequently see cars from San Veron Apartments parked on our street of San Lucas. Constantly seeing unfamiliar cars and drivers in front of your house is unsettling and decreases the feeling of safety. Street parking also decreases the effective width of the street making it more dangerous to drive and decreases visibility when pulling out of driveways. Finally, a street full of cars is less aesthetic than one without cars. Other cities have imposed strict laws limiting street parking.





The Shoreline Gateway project proposes to provide only 1.2 parking stalls per housing unit in an effort to discourage car ownership. In locations where there are viable transportation alternatives, like the Madera Apartments across the street from the Mountain View Transit Center, this may be successful. However, the Shoreline Gateway project is far from any practical mass transit, and the nearest strip mall is half a mile away.

Appendix B
Construction Air Quality Memorandum

ILLINGWORTH & RODKIN, INC.
Acoustics • Air Quality

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Cotati, CA 94931

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

M E M O

Date: April 25, 2019

To: **Kerry M. Williams**
Consultant to Sares Regis
901 Mariners Island Boulevard, Suite 700
San Mateo, CA 94404

From: James A. Reyff
Illingworth & Rodkin, Inc.
429 East Cotati Avenue
Cotati, CA 94931

RE: 1001 N. Shoreline Air Quality Analysis, Mountain View, CA

SUBJECT: Construction Air Quality Analysis

This memo provides the updated construction air pollutant emissions modeling and health risk assessment. Our original analysis was submitted March 7, 2019. The City's consultant, ESA, reviewed this assessment and requested clarification and additional information. This memo has been updated to provide the requested information. *Attachment 1* provides ESA's memorandum with their requests and our responses.

At this time, specific construction schedules or anticipated equipment usage are not known. Therefore, Illingworth & Rodkin, Inc. developed project construction inputs based on default assumptions that the California Emissions Estimator Model (CalEEMod Version 2016.3.2) would apply to the project. Two model runs were developed that reflect construction of each project area: 1) to represent Block A and 2) to represent Block B and the Office Parking Structure. Two modeling scenarios were developed to address the potential sequence of construction: 1) Block B would be constructed, followed by Block A and 2) Block A and Block B would be constructed simultaneously. The sequenced construction would occur from the years 2020-2023, while simultaneous construction would occur from the years 2020-2021. The results for both construction scenarios are described and compared below. The construction inputs are attached to this memo.

We understand the additional information should apply to the project construction assumptions:

1. No pile driving is planned;
2. Construction work hours will be limited to the allowable hours per City requirements; and
3. No nighttime construction is anticipated at this time.

Construction Emissions Modeling

The CalEEMod model was used to compute emissions of air pollutants and diesel particulate matter (DPM) from construction of the project. Inputs to the model are provided in the construction worksheets that are provided as *Attachment 2*. The CalEEMod model was used to develop construction assumptions that include schedule, equipment usage, and traffic generation. The CalEEMod default site acreages were used to conservatively estimated construction activity and emissions, as these acreages are larger than the project construction sites. These inputs were reviewed by the Project Team to verify the best estimates for each construction phase (i.e., demolition, site preparation, grading, trenching, building construction, architectural coating, and paving) and provide or confirm estimates for hauling during demolition and grading.

Demolition estimates were based on the estimated square footages of buildings and asphalt to be removed. For asphalt areas, the thickness of pavement was estimated to be three inches. According to CalRecycle, asphalt and concrete waste is about 2,400 pounds per cubic yard (cy). The Project Team estimated that there would be approximately 3,900 cy of fill needed and 1,200 cy of cut material. The net import would be 2,700 cy. To account for shrinkage or expansion, the amount of import was estimated at 3,240 cy. Note that the modeling conservatively assumed 1,000 cy of export in addition to the import estimate. The CalEEMod default trip generation, trip types, and trip lengths were used to model construction criteria pollutants using the demolition and grading hauling inputs described above.

For the simultaneous construction, June 2020 was assumed to be the start of construction for both Blocks A and B. For the sequenced construction, Block B was assumed to start June 2020 and Block A was assumed to occur after construction of Block B in June 2022. Two model runs were developed to predict emissions from each construction project.

Criteria Air Pollutant Emissions

Total emissions from each construction project were computed for both construction scenarios. The simultaneous construction would occur over an estimated 340 workdays. The sequenced construction would occur over at least three years. The Block A project is estimated by CalEEMod to require at least 300 construction workdays, while Block B and the Office Parking construction would require 320 construction workdays. Table 1 reports total construction emissions from the project and the average daily construction emissions.

Table 1. Project Construction Air Pollutant Emissions

Description	ROG	NOx	PM_{10} Exhaust	$PM_{2.5}$ Exhaust
Simultaneous Construction Emissions				
Block A & B Construction Emissions (tons)	3.89	7.97	0.35	0.33
Average Daily Emissions (pounds per day)[1]	22.88	46.88	2.06	1.94
Sequenced Construction Emissions				
Block A Construction Emissions (tons)	2.38	3.71	0.17	0.17
Block B & Office Parking Emissions (tons)	1.51	4.26	0.17	0.16
Average Daily Emissions (pounds per day)[2]	12.5	25.7	1.1	1.0
BAAQMD Thresholds (pounds per day)	***54***	***54***	***82***	***54***
Exceed Threshold?				
Simultaneous Construction	No	No	No	No
Sequenced Construction	No	No	No	No

[1]Assumes 340 workdays. [2]Assuming 620 construction workdays.

Construction Toxic Air Contaminant Emissions

Diesel particulate matter emissions are the primary toxic air contaminant (TAC) that would be emitted during construction that could lead to community risk impacts. In addition, fine particulate matter (i.e., $PM_{2.5}$) emitted as exhaust and fugitive dust could lead to elevated annual $PM_{2.5}$ concentrations that also result in community risk impacts. Emissions of these contaminants/pollutants during construction are summarized in Table 2. Note that these emissions only include on- and near-site traffic emissions. A construction travel distance of one mile was applied to all construction travel in CalEEMod to represent these local traffic emissions. Since truck haul routes are not known but likely to travel away from sensitive receptors south of the site (i.e., along U.S. 101 or Shoreline Boulevard north of U.S. 101), the emissions were assigned to the project site. CalEEMod output files are included in *Attachment 2*.

Table 2. Localized Project Construction Emissions of DPM and $PM_{2.5}$(in tons)

Description	Exhaust PM_{10} (considered DPM)	Total $PM_{2.5}$
Block A and B Construction Emissions	0.3422	0.1808
Block A Construction Emissions – Year 1	0.1006	0.1810
Block A Construction Emissions – Year 2	0.0705	0.0695
Block B and Office Parking Emissions - Year 1	0.1006	0.1821
Block B and Office Parking Emissions - Year 2	0.0705	0.0687

Construction Health Risk Assessment

Construction emissions of DPM and $PM_{2.5}$ predicted using CalEEMod (see Table 2) were used with dispersion modeling to predict exposures at sensitive receptors within 1,000 feet of the project site. Cancer Risk methodology recommended by the California Office of Environmental Health Hazard Assessment (OEHHA) and the Bay Area Air Quality Management District (BAAQMD) were used to compute cancer risk associated with these exposures. The cancer risk methodology is described in *Attachment 3*.

Sensitive Receptors

There are groups of people more affected by air pollution than others. The California Air Resource Board (CARB) has identified the following persons who are most likely to be affected by air pollution: children under 16, the elderly over 65, athletes, and people with cardiovascular and chronic respiratory diseases. These groups are classified as sensitive receptors. Locations that may contain a high concentration of these sensitive population groups include residential areas, hospitals, daycare facilities, elder care facilities, elementary schools, and parks. For cancer risk assessments, children are the most sensitive receptors, since they are more susceptible to cancer causing TACs. Residential locations are assumed to include third trimester, infant, and small children exposure. The closest sensitive receptors to the proposed project site is a single-family home (in a commercially zoned area along Linda Vista Avenue) about 200 feet southeast of the project site. Other sensitive receptors include residences in the townhome developments approximately 700 feet south of the project site. These sensitive receptors, which are within 1,000 feet of the project site, were included in the dispersion modeling and health risk assessment.

Construction Emissions

The CalEEMod model provided total annual PM_{10} exhaust emissions (assumed to be DPM) for the off-road construction equipment and for exhaust emissions from on-road vehicles, with total emissions from all construction stages as 0.3422 tons (684 pounds). These are shown by phase and construction year in Table 2.

Most of the construction emissions, approximately 88 percent, are the result of on-site use of off-road and portable construction equipment. The on-road emissions are a result of hauling truck travel during demolition and grading activities, worker travel, and vendor deliveries during construction. A trip length of one mile was used to represent vehicle travel while at or near the construction site. It was assumed that these emissions from on-road vehicles traveling at or near the site would occur at the construction site.

Fugitive $PM_{2.5}$ dust emissions were calculated by CalEEMod as 0.1808 tons (362 pounds) for the overall construction period.

Dispersion Modeling

The U.S. EPA AERMOD dispersion model was used to predict concentrations of DPM and $PM_{2.5}$ concentrations at sensitive receptors (residences) in the vicinity of the project construction area. The AERMOD dispersion model is a BAAQMD-recommended model for use in modeling analysis of these types of emission activities for California Environmental Quality Act (CEQA) projects.[1] The modeling utilized four area sources to represent the on-site construction emissions; two for exhaust emissions and two for fugitive dust emissions. To represent the construction equipment exhaust emissions, an emission release height of 6 meters (19.7 feet) was used for the area source. The elevated source height reflects the height of the equipment exhaust pipes plus an additional distance for the height of the exhaust plume above the exhaust pipes to account for

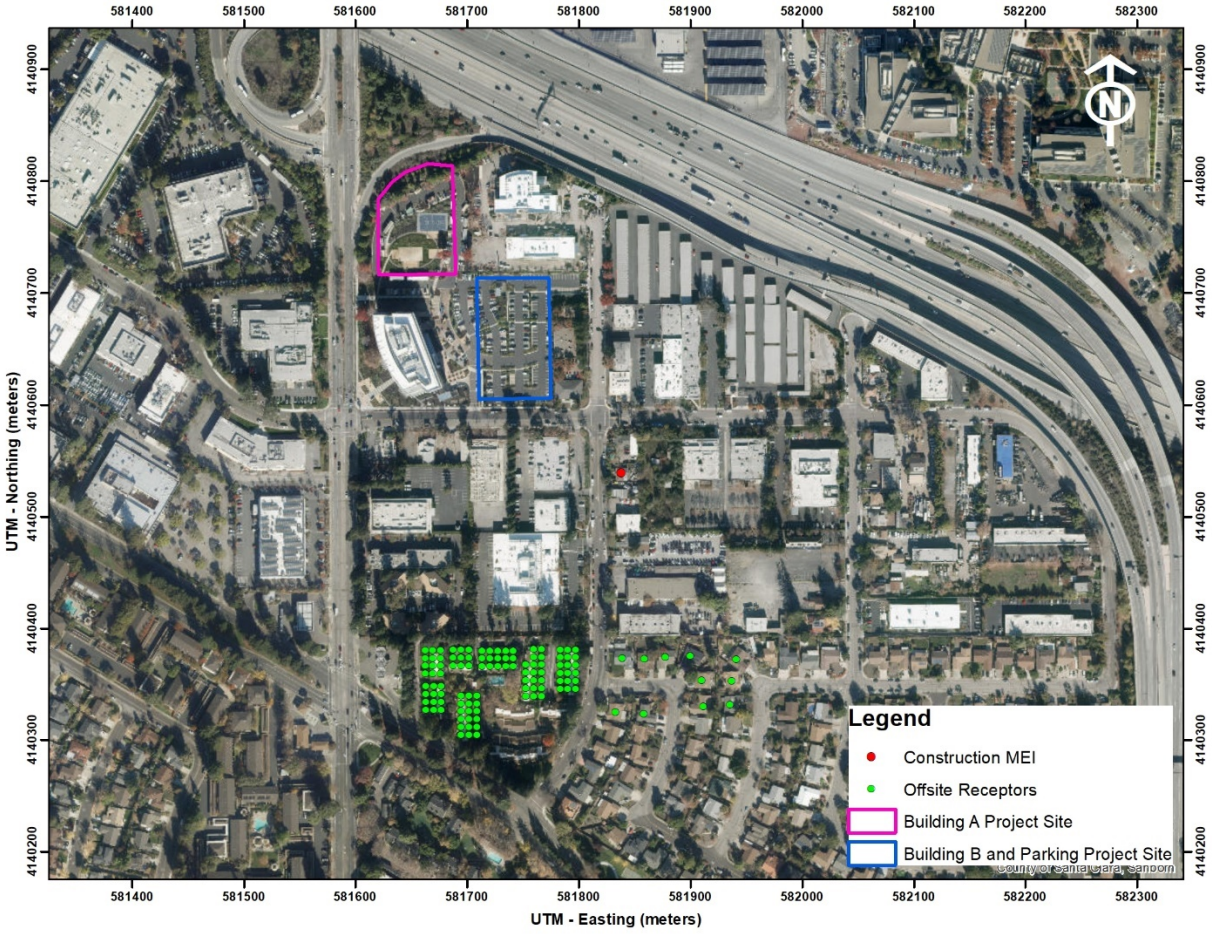
1 Bay Area Air Quality Management District (BAAQMD), 2012, *Recommended Methods for Screening and Modeling Local Risks and Hazards, Version 3.0.* May.

plume rise of the exhaust gases. For modeling fugitive $PM_{2.5}$ emissions, a near-ground level release height of 2 meters (6.6 feet) was used for the area source. Emissions from the construction equipment and on-road vehicle travel were distributed throughout the modeled area sources. Construction emissions were modeled as occurring daily between 7:00 a.m. to 6:00 p.m., which is the range of hours the City of Mountain View allows for construction noise.

The modeling used a five-year data set (2009 - 2013) of hourly meteorological data from the Moffett Federal Airfield Airport prepared by CARB for use with the AERMOD model. DPM and $PM_{2.5}$ concentrations from construction activities in 2020-2023 were calculated using the model. DPM and $PM_{2.5}$ concentrations were calculated at nearby residential locations at a receptor height of 1.5 meters (4.9 feet) and 4.5 meters (14.8 feet) to represent the first and second building levels of nearby multi-story residences. Figure 1 shows the construction area and DPM point sources modeled and the locations of nearby residential receptors.

The maximum-modeled annual DPM and $PM_{2.5}$ concentrations, which includes both the DPM and fugitive $PM_{2.5}$ concentrations, were identified at nearby sensitive receptors (as shown in Figure 1) to find the maximally exposed individuals (MEIs). Using the maximum annual modeled DPM concentrations, the maximum increased cancer risks were calculated using BAAQMD recommended methods and exposure parameters described in *Attachment 3*. The cancer risk calculations are based on applying the BAAQMD recommended age sensitivity factors to the TAC concentrations. Age-sensitivity factors reflect the greater sensitivity of third trimester gestations, infants, and small children to cancer causing TACs. Non-cancer health hazards and maximum $PM_{2.5}$ concentrations were also calculated and identified. *Attachment 4* includes the construction health risk modeling outputs and calculations.

Figure 1. Project Site, Construction Modeling Sources, Residential Receptor Locations, and Location of Maximum TAC Impacts (Cancer Risk and $PM_{2.5}$ Concentration)



Community Risk Results

Results of this assessment indicated that the construction MEI, where the maximum-modeled $PM_{2.5}$ and DPM concentrations would occur, was located at the single-family home east of Linda Vista Avenue, which is approximately 200 feet away from the project site. Table 3 and Table 4 summarize the risks impacts at the construction MEI for both construction scenarios. In both cases, the maximum cancer risk does exceed the BAAQMD single-source threshold of 10.0 per million for cancer risk. The unmitigated $PM_{2.5}$ concentration at the construction MEI in Table 4 also exceeds the BAAQMD single-source threshold of 0.3 $\mu g/m^3$ for $PM_{2.5}$ concentrations. The mitigated cancer risk, maximum $PM_{2.5}$ concentration, and HI risk values do not exceed the BAAQMD single-source thresholds for each respective risk. Mitigated results are based on the identified feasible construction mitigation plan that reduces construction emissions by 90 percent.

Table 3. Sequenced Construction Risk Impacts at the MEI

Source	Cancer Risk (per million)	$PM_{2.5}$ Concentration ($\mu g/m^3$)	Acute and Chronic Hazard (HI)
Construction MEI			
Unmitigated	**45.7**	0.30	0.03
Mitigated	4.6	0.05	<0.01
Significant?			
Unmitigated	**Yes**	No	No
Mitigated	No	No	No
BAAQMD Single-Source Threshold	***>10.0***	***>0.3***	***>1.0***

Table 4. Simultaneous Construction Risk Impacts at the MEI

Source	Cancer Risk (per million)	$PM_{2.5}$ Concentration ($\mu g/m^3$)	Acute and Chronic Hazard (HI)
Construction MEI			
Unmitigated	**53.5**	**0.48**	0.06
Mitigated	5.4	0.08	0.01
Significant?			
Unmitigated	**Yes**	**Yes**	No
Mitigated	No	No	No
BAAQMD Single-Source Threshold	***>10.0***	***>0.3***	***>1.0***

Recommended Mitigation

Selection of equipment during construction to minimize emissions. Such equipment selection would include the following:

The project shall develop a plan demonstrating that the off-road equipment used on-site to construct the project would achieve a fleet-wide average 77- to 81-percent reduction of DPM, considered as PM_{10} exhaust. One feasible plan to achieve this reduction would include the following:

1. *All diesel-powered off-road equipment, larger than 25 horsepower, operating on the site for more than two days continuously shall, at a minimum, meet U.S. EPA particulate matter emissions standards for Tier 3 engines and this equipment would need to include CARB-certified Level 3 Diesel Particulate Filters[2] or equivalent. Equipment that meets U.S. EPA Tier 4 standards for particulate matter emissions or use of equipment that is electrically powered or uses non-diesel fuels would meet this requirement.*

2. *Use electric-powered building cranes.*

2 See http://www.arb.ca.gov/diesel/verdev/vt/cvt.htm

3. *Use of electric-powered portable equipment, which includes air compressors and welders.*

4. *Minimize diesel generator use by providing line power to the construction sites prior to building construction.*

5. *Implement Best Management Practices identified in the BAAQMD CEQA Air Quality Guidelines that include:* During any construction period ground disturbance, the applicant shall ensure that the project contractor implement measures to control dust and exhaust. Implementation of the measures recommended by BAAQMD and listed below would reduce the air quality impacts associated with grading and new construction to a less than significant level. The contractor shall implement the following best management practices that are required of all projects:

    1. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.

    2. All haul trucks transporting soil, sand, or other loose material off-site shall be covered.

    3. All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.

    4. All vehicle speeds on unpaved roads shall be limited to 15 miles per hour (mph).

    5. All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used.

    6. Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points.

    7. All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation.

8. Post a publicly visible sign with the telephone number and person to contact at the Lead Agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations.

Effectiveness of Mitigation

With the recommended mitigation, the computed maximum increased lifetime residential cancer risk from construction, assuming infant exposure, would be 4.6 or 5.4 in one million or less, the maximum annual $PM_{2.5}$ concentration would be 0.05 or 0.08 $\mu g/m^3$, depending on the construction scenario. The Hazard Index would be <0.01 at the construction MEI. As a result, impacts would be reduced to *less-than-significant* with respect to community risk caused by construction activities in either construction scenario.

Attachment 1: Response to ESA Requests for Clarification/Information Regarding the Initial Construction Assessment

1.	On page 1 of the memo it is stated that "the sequenced construction would occur from the years 2002-2023." Please confirm and revise the memo to read 2020-2023. Response: Corrected typo.
2	The memo lists only 3 project construction assumptions on page 1, please confirm that following should also be included as construction assumptions, and provide sources and/or other justification for these assumptions in the memo: Response: Cut/Fill volumes – the memo has been updated to explain the cut/fill volumes provided by the Project Team. Schedule Assumptions - the memo has been updated to explain the schedule that was developed initially by CalEEMod and then confirmed as the best estimate based on review by the Project Team. Demolition Assumptions - the memo has been updated to document that these are based on estimated measurements using Google Earth of building and asphalt areas. Diesel to electric for some construction equipment – while electric cranes and some of the portable equipment are planned, these are considered mitigation. Trenching Assumptions – See "Schedule Assumptions" above.
3	Construction travel distance. Response: The CalEEMod default travel lengths were used to estimate criteria air pollutant emissions. A travel length of one mile was used to represent vehicle emissions in the health risk assessment for activity within 1,000 feet of the project site. This is a localized assessment, where emissions from travel well away from the project site and sensitive receptors would not influence the outcome of the health risk assessment. Truck haul routes are assumed to travel away from sensitive receptors along U.S. 101 or north of Shoreline Boulevard.
4 & 5	Location of Sensitive Receptors. Response: The memo has been updated to describe the nearest sensitive receptors, including the sensitive receptor along Linda Vista Avenue. The distance from the single-family on Linda Vista Avenue to the project site has been corrected to 200 feet. The distance from the project site to other sensitive receptors has been corrected to 700 feet.
6	Remove Operational portion of Attachment 2. Response: The operational portion of the CalEEMod output has been removed.
7	Provide AERMOD files. Response:

	AERMOD files provided in zip files. <u>Simultaneous Construction (2 Files)</u> *1001_N_Shoreline_Cont_1-5_Unmit_Simultaneous* *1001_N_Shoreline_Cont_1-5_Mit_Simultaneous* <u>Sequence Construction (8 Files)</u> *1001_N_Shoreline_Cont_1-5_Unmit_B_20_Sequence* *1001_N_Shoreline_Cont_1-5_Unmit_B_21_Sequence* *1001_N_Shoreline_Cont_1-5_Unmit_A_22_Sequence* *1001_N_Shoreline_Cont_1-5_Unmit_A_23_Sequence* *1001_N_Shoreline_Cont_1-5_Mit_B_20_Sequence* *1001_N_Shoreline_Cont_1-5_Mit_B_21_Sequence* *1001_N_Shoreline_Cont_1-5_Mit_A_22_Sequence* *1001_N_Shoreline_Cont_1-5_Mit_A_23_Sequence*
8.	Construction scenario "Sequenced" would have Block B complete and operational before Block A construction begins. HRA scenario that includes new residences in Block B should be provided. Response: According to the Project Team, if Block B is completed before Block A is completed, the amount of remaining construction would be minor and associated with interior improvements and landscaping. This short portion of the construction is not anticipated to result in significant impacts to new occupants. It should be noted that mitigation requirements will apply to construction activities at Block A, reducing construction emissions substantially.
9.	Provide the potential haul truck/vendor truck routes. Potential routes should be modeled in AERMOD as line sources within the 1000-foot project radius and incorporated into the HRA. Routes that may be closer to sensitive receptors than the main construction area(s) should be modeled as such. Response: Haul truck/vendor truck routes are not known but assumed that most would be away from sensitive receptors. It is likely that trucks would travel along U.S. 101 or north on Shoreline Boulevard. Therefore, emissions were computed for a 1-mile travel length and assigned to the project site. Note that these truck emissions make up only 12-percent of the total emissions.
10.	Provide clarification on why the third trimester group was excluded. Additionally, the Air District recommends that the cancer risk be evaluated assuming that the average daily dose for short-term exposure lasts a minimum of three years for projects lasting three years or less. Response: Third-trimester exposure parameters were included in the cancer risk evaluation. Per the BAAQMD *Recommended Methods for Screening and Modeling Local Risk Hazards (May 2012)*, the averaging time used in models should reflect the time a receptor is exposed. The receptors would be exposed to construction from 2020-2021 or from 2020-2023. Therefore, it would be appropriate for the construction analysis to reflect either one or three years of exposure. These recommendations comply with the BAAQMD CEQA Guidelines.

ESA 50 YEARS 1969-2019

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esassoc.com

memorandum

date	March 27, 2019
to	Clarissa Burke, City of Mountain View John Schwarz, JHS Consulting
from	Jill Feyk-Miney, ESA Elizabeth Kanner, ESA
subject	1001 N. Shoreline Air Quality Construction Inputs

On March 12, 2019, an Air Quality Analysis Technical Memorandum was submitted on behalf of Sares Regis for review by the City of Mountain View in the context of the Residences @ Shoreline Gateway Project. Illingworth & Rodkin prepared the report, which is dated March 7, 2019. For your ease in reference, an electronic copy of the report accompanies this memorandum.

At your request, ESA has completed its review of the memorandum. Toward finding it to be suitable for reliance as one of multiple sources of data informing the analysis of potential environmental impacts of the Residences @ Shoreline Gateway Project, we request the following clarifications or that additional data be provided:

1. On page 1 of the memo it is stated that "the phased construction would occur from the years 2002-2023." Please confirm and revise the memo to read 2020-2023.

2. The memo lists only 3 project construction assumptions on page 1, please confirm that following should also be included as construction assumptions, and provide sources and/or other justification for these assumptions in the memo:

    - Cut/fill volumes,
    - Schedule assumptions – the only overlapping activity is trenching and grading,
    - Demolition assumption - estimated tons based on measured area with 3" thickness and 2400lbs/yd3,
    - Diesel to electric for some construction equipment - specify which pieces and why for the unmitigated scenario, and
    - Trenching equipment assumptions.

3. Page 3 of the memo states "construction travel distance of one mile was applied to all construction travel in CalEEMod to represent local traffic emissions." Please provide justification for this change. Are there construction waste and haul providers located within 1 mile of the project site? The same question applies on page 4 of the memo for the health risk assessment assumptions.

4. Page 3 of the memo states that a possible sensitive receptor is located approximately 350 feet southeast of the project site. The City has confirmed that there is one single family home (nonconforming use currently) on Linda Vista about 200 feet away from the project site. Please revise to include this sensitive receptor on Figure 1 and remove the potential sensitive receptor discussion.

5. Also on page 3, please revise the residential subdivision distance to 700 feet south of the project site.

6. Attachment 2 – this is a construction run only, please remove operational information from the output. Explain why the strip mall land use is associated with retail, and not user defined retail, as the traffic analysis conservatively modeled it using the ITE's Trip Generation Manual, 10th Edition rates for Land Use Code 936 "Coffee/Donut Shop without Drive-Through Window."

7. Attachment 4 provides some of the HRA inputs but does not have any of the air modeling files (AERMOD files). The emission rates were averaged over 11 hours a day and 365 days per year; can it be verified that the appropriate variable emission scenario was utilized? Please provide AERMOD input/output files for verification.

8. Construction scenario "Phased" would have Block B complete and operational before Block A construction begins. There should be a Block A construction HRA completed with the new residential Block B sensitive receptors included.

9. Attachment 4 discusses two area sources for construction emissions which is assumed to contain the haul truck/vendor truck emissions calculated with a one-mile distance (referenced in question 3) in CalEEMod. Please provided the potential haul truck/vendor truck routes. Potential routes should be modeled in AERMOD as line sources within the 1000-foot project radius and incorporated into the HRA. Routes that may be closer to sensitive receptors than the main construction area(s) should be modeled as such.

10. Attachment 4, the HRA for construction scenario "Simultaneous", please provide clarification on why the third trimester group was excluded. Additionally, the Air District recommends that the cancer risk be evaluated assuming that the average daily dose for short-term exposure lasts a minimum of three years for projects lasting three years or less.

If there are questions about this memo, or you would like to discuss what is being requested, please do not hesitate to contact Jill Feyk-Miney, who can facilitate a call among the interested parties. Jill can be reached via e-mail (jfeyk-miney@esassoc.com) or by phone (510.463.6737).

Attachment 2: CalEEMod Output and Construction Modeling Inputs

Project Name: 1001 N. Shoreline Block B and Office Parking

Bldge B + Office Garage 2.06 acres — CalEEMod = 5.76

Block B 100 Dwelling Units — 150100 s.f. townhome:

Block B 52300 s.f. parking garage — 128 spaces

Block B Office 130820 s.f. parking garage — 359 spaces

Construction Hours am to pm

Qty	Description	HP	Load Factor	Hours/day	Total Work Days	Avg. Hours per day	Comments	Traffic Trips Generated by Phase: Workers per Day	Vendors per day	Total Haul Trucks
	Demolition	**Start Date:**	6/1/2020	**Total phase:**	**20**		**Overall Import/Export Volumes**	**15**		**168**
		End Date:								
1	Concrete/Industrial Saws	81	0.73	8	20	8	**Demolition Volume**			
3	Excavators	158	0.38	8	20	8	**Square footage of buildings to be demolished**			
2	Rubber-Tired Dozers	255	0.4	8	20	8	**(or total tons to be hauled)**			
	Tractors/Loaders/Backhoes	97	0.37			0				
							Any pavement demolished and hauled?1,700 tons			
	Site Preperation	**Start Date:**		**Total phase:**	**10**			**18**		
		End Date:					**Soil Hauling Volume**			
	Graders	174	0.41			0				
3	Rubber Tired Dozers	247	0.4	8	10	8				
4	Tractors/Loaders/Backhoes	97	0.37	8	10	8				
	Grading / Excavation	**Start Date:**		**Total phase:**	**20**			**15**		**530**
		End Date:					**Soil Hauling Volume**			
	Scrapers	361	0.48			0				
1	Excavators	158	0.38	8	20	8	**Export volume = 1,000 cubic yards?**			
1	Graders	187	0.41	8	20	8	**Import volume = 3,240 cubic yards?**			
1	Rubber Tired Dozers	247	0.4	8	20	8				
3	Tractors/Loaders/Backhoes	97	0.37	8	20	8				
	Other Equipment?									
	Trenching	**Start Date:**		**Total phase:**	**30**			**5**		
		End Date:								
1	Tractor/Loader/Backhoe	97	0.37	6	30	6				
1	Excavators	158	0.38	6	30	6				
	Other Equipment?									
	Building - Exterior	**Start Date:**		**Total phase:**	**230**		**Cement trips assumed in vendor trip estimate**	**136**	**36**	
		End Date:								
1	Cranes	231	0.29	7	230	7	**Building crane would be electric**			
3	Forklifts	89	0.2	8	230	8				
1	Generator Sets	84	0.74	8	230	8	**Generator unitl line power available**			
3	Tractors/Loaders/Backhoes	97	0.37	7	230	7				
1	Welders	46	0.45	8	230	8				
	Other Equipment?					0				
	Building - Interior/Architectural Coating	**Start Date:**		**Total phase:**	**20**			**27**		
		End Date:								
3	Air Compressors	78	0.48	6	20	6				
3	Aerial Lift	62	0.31	6	20	6				
	Other Equipment?									
	Paving	**Start Date:**		**Total phase:**	**20**			**15**		
		Start Date:								
	Cement and Mortar Mixers	9	0.56			0				
2	Pavers	130	0.42	8	20	8				
2	Paving Equipment	132	0.36	8	20	8				
2	Rollers	80	0.38	8	20	8				
	Tractors/Loaders/Backhoes	97	0.37			0				
	Other Equipment?									

Equipment listed in this sheet is to provide an example of inputs

It is assumed that water trucks would be used during grading

Add or subtract phases and equipment, as appropriate

Modify horepower or load factor, as appropriate

Typical Equipment Type & Load Factors

OFFROAD Equipment Type	HP	Load Factor
Aerial Lifts	62	0.31
Air Compressors	78	0.48
Bore/Drill Rigs	205	0.5
Cement and Mortar Mixers	9	0.56
Concrete/Industrial Saws	81	0.73
Cranes	231	0.29
Crawler Tractors	208	0.43
Crushing/Proc. Equipment	85	0.78
Dumpers/Tenders	16	0.38
Excavators	158	0.38
Forklifts	89	0.2
Generator Sets	84	0.74
Graders	187	0.41
Off-Highway Tractors	122	0.44
Off-Highway Trucks	400	0.38
Other Construction Equipment	171	0.42
Other General Industrial Equipment	150	0.34
Other Material Handling Equipment	167	0.4
Pavers	130	0.42
Paving Equipment	132	0.36
Plate Compactors	8	0.43
Pressure Washers	13	0.2
Pumps	84	0.74
Rollers	80	0.38
Rough Terrain Forklifts	100	0.4
Rubber Tired Dozers	247	0.4
Rubber Tired Loaders	199	0.36
Scrapers	361	0.48
Signal Boards	6	0.82
Skid Steer Loaders	64	0.37
Surfacing Equipment	253	0.3
Sweepers/Scrubbers	64	0.46
Tractors/Loaders/Backhoes	97	0.37
Trenchers	80	0.5
Welders	46	0.45

Project Name: 1001 N. Shoreline Block A

Bldg A 2.2 acres — CalEEMod = 7.71

Block A 203 Dwelling Units — 273500.0 s.f. apartments

Block A 3000 s.f. retail

Block A 100300 s.f. parking garage — 244

Construction Hours am to pm

Complete ALL Portions in Yellow

Qty	Description	HP	Load Factor	Hours/day	Total Work Days	Avg. Hours per day	Comments	Traffic Trips Generated by Phase: Workers per Day	Vendors per day	Total Haul Trucks
	Demolition	**Start Date:**	6/1/2022	**Total phase:**	20		**Overall Import/Export Volumes**	15		69
		End Date:								
1	Concrete/Industrial Saws	81	0.73	8	20	8	**Demolition Volume**			
3	Excavators	158	0.38	8	20	8	**Square footage of buildings to be demolished**			
2	Rubber-Tired Dozers	255	0.4	8	20	8	**(or total tons to be hauled)**			
	Tractors/Loaders/Backhoes	97	0.37			0				
							Any pavement demolished and hauled? 700 tons			
	Site Preperation	**Start Date:**		**Total phase:**	10			18		
		End Date:					**Soil Hauling Volume**			
	Graders	174	0.41			0				
3	Rubber Tired Dozers	247	0.4	8	10	8				
4	Tractors/Loaders/Backhoes	97	0.37	8	10	8				
	Grading / Excavation	**Start Date:**		**Total phase:**	20			15		250
		End Date:					**Soil Hauling Volume**			
	Scrapers	361	0.48			0				
1	Excavators	158	0.38	8	20	8	**Export volume = 1,000 cubic yards?**			
1	Graders	187	0.41	8	20	8	**Import volume = 1,000 cubic yards?**			
1	Rubber Tired Dozers	247	0.4	8	20	8				
3	Tractors/Loaders/Backhoes	97	0.37	8	20	8				
	Other Equipment?									
	Trenching	**Start Date:**		**Total phase:**	30			5		
		End Date:								
1	Tractor/Loader/Backhoe	97	0.37	6	30	6				
1	Excavators	158	0.38	6	30	6				
	Other Equipment?									
	Building - Exterior	**Start Date:**		**Total phase:**	230		**Cement trips assumed in vendor trip estimate**	189	39	
		End Date:								
1	Cranes	231	0.29	7	230	7	**Building crane would be electric**			
3	Forklifts	89	0.2	8	230	8				
1	Generator Sets	84	0.74	8	230	8	**Generator unitl line power available**			
3	Tractors/Loaders/Backhoes	97	0.37	7	230	7				
1	Welders	46	0.45	8	230	8				
	Other Equipment?					0				
	Building - Interior/Architectural Coating	**Start Date:**		**Total phase:**	20			38		
		End Date:								
3	Air Compressors	78	0.48	6	20	6				
3	Aerial Lift	62	0.31	6	20	6				
	Other Equipment?									
	Paving	**Start Date:**		**Total phase:**	20			15		
		Start Date:								
	Cement and Mortar Mixers	9	0.56			0				
2	Pavers	130	0.42	8	20	8				
2	Paving Equipment	132	0.36	8	20	8				
2	Rollers	80	0.38	8	20	8				
	Tractors/Loaders/Backhoes	97	0.37			0				
	Other Equipment?									

Equipment listed in this sheet is to provide an example of inputs

It is assumed that water trucks would be used during grading

Add or subtract phases and equipment, as appropriate

Modify horepower or load factor, as appropriate

Typical Equipment Type & Load Factors

OFFROAD Equipment Type	HP	Load Factor
Aerial Lifts	62	0.31
Air Compressors	78	0.48
Bore/Drill Rigs	205	0.5
Cement and Mortar Mixers	9	0.56
Concrete/Industrial Saws	81	0.73
Cranes	231	0.29
Crawler Tractors	208	0.43
Crushing/Proc. Equipment	85	0.78
Dumpers/Tenders	16	0.38
Excavators	158	0.38
Forklifts	89	0.2
Generator Sets	84	0.74
Graders	187	0.41
Off-Highway Tractors	122	0.44
Off-Highway Trucks	400	0.38
Other Construction Equipment	171	0.42
Other General Industrial Equipment	150	0.34
Other Material Handling Equipment	167	0.4
Pavers	130	0.42
Paving Equipment	132	0.36
Plate Compactors	8	0.43
Pressure Washers	13	0.2
Pumps	84	0.74
Rollers	80	0.38
Rough Terrain Forklifts	100	0.4
Rubber Tired Dozers	247	0.4
Rubber Tired Loaders	199	0.36
Scrapers	361	0.48
Signal Boards	6	0.82
Skid Steer Loaders	64	0.37
Surfacing Equipment	253	0.3
Sweepers/Scrubbers	64	0.46
Tractors/Loaders/Backhoes	97	0.37
Trenchers	80	0.5
Welders	46	0.45

CalEEMod Modeling Output

1001 N Shoreline Block A (Criteria)

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	244.00	Space	2.20	99,629.00	0
Apartments Mid Rise	203.00	Dwelling Unit	5.34	273,500.00	581
Strip Mall	3.00	1000sqft	0.07	3,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - PG&E Rate

Land Use - Using building sizes provided and CalEEMod default acreages

Construction Phase - Added trenching phase

Off-road Equipment - add aerial lifts

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - added trenching equipment

Trips and VMT - added trenching worker trips

Demolition - estimated tons based on measured area ~5k sy with 3" thickness and 2400lbs/yd3 rounded up

Grading - material import

Construction Off-road Equipment Mitigation - Electric cranes and stationary equipment

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblGrading	MaterialExported	0.00	1,000.00
tblGrading	MaterialImported	0.00	1,000.00
tblLandUse	LandUseSquareFeet	97,600.00	99,629.00
tblLandUse	LandUseSquareFeet	203,000.00	273,500.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					

2020	0.2349	2.1412	1.7313	3.7900e-003	0.2609	0.1021	0.3630	0.1107	0.0953	0.2061	0.0000	337.6826	337.6826	0.0593	0.0000	339.1645
2021	2.1478	1.5657	1.6216	3.6200e-003	0.1148	0.0714	0.1862	0.0309	0.0672	0.0981	0.0000	322.2317	322.2317	0.0479	0.0000	323.4295
Maximum	**2.1478**	**2.1412**	**1.7313**	**3.7900e-003**	**0.2609**	**0.1021**	**0.3630**	**0.1107**	**0.0953**	**0.2061**	**0.0000**	**337.6826**	**337.6826**	**0.0593**	**0.0000**	**339.1645**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.1965	1.8142	1.5432	3.7900e-003	0.1710	0.0875	0.2585	0.0643	0.0815	0.1458	0.0000	304.8298	304.8298	0.0504	0.0000	306.0891
2021	2.0994	1.1576	1.3495	3.6200e-003	0.1148	0.0531	0.1679	0.0309	0.0497	0.0806	0.0000	274.7722	274.7722	0.0368	0.0000	275.6923
Maximum	**2.0994**	**1.8142**	**1.5432**	**3.7900e-003**	**0.1710**	**0.0875**	**0.2585**	**0.0643**	**0.0815**	**0.1458**	**0.0000**	**304.8298**	**304.8298**	**0.0504**	**0.0000**	**306.0891**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**3.64**	**19.83**	**13.73**	**0.00**	**23.93**	**19.00**	**22.37**	**32.81**	**19.26**	**25.57**	**0.00**	**12.17**	**12.17**	**18.67**	**0.00**	**12.20**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**6-1-2020**	**8-31-2020**	1.1759	1.1157
2	**9-1-2020**	**11-30-2020**	0.8785	0.6501
3	**12-1-2020**	**2-28-2021**	0.8173	0.6043
4	**3-1-2021**	**5-31-2021**	0.8032	0.5924
5	**6-1-2021**	**8-31-2021**	2.3907	2.2810
		Highest	2.3907	2.2810

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2020	6/26/2020	5	20	
2	Site Preparation	Site Preparation	6/27/2020	7/10/2020	5	10	
3	Grading	Grading	7/11/2020	8/7/2020	5	20	
4	utilities	Trenching	7/11/2020	8/7/2020	5	20	overlaps with grading
5	Building Construction	Building Construction	8/8/2020	6/25/2021	5	230	
6	Paving	Paving	6/26/2021	7/23/2021	5	20	
7	Architectural Coating	Architectural Coating	7/24/2021	8/20/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 2.2

Residential Indoor: 553,838; Residential Outdoor: 184,613; Non-Residential Indoor: 4,500; Non-Residential Outdoor: 1,500; Striped

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
utilities	Excavators	1	6.00	158	0.38
utilities	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20

Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Aerial Lifts	3	6.00	63	0.31
Architectural Coating	Air Compressors	3	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	69.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	250.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
utilities	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	189.00	39.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	6	38.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Fugitive Dust					7.4900e-003	0.0000	7.4900e-003	1.1300e-003	0.0000	1.1300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2386
Total	**0.0331**	**0.3320**	**0.2175**	**3.9000e-004**	**7.4900e-003**	**0.0166**	**0.0241**	**1.1300e-003**	**0.0154**	**0.0166**	**0.0000**	**33.9986**	**33.9986**	**9.6000e-003**	**0.0000**	**34.2386**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.9000e-004	0.0100	2.0500e-003	3.0000e-005	5.8000e-004	3.0000e-005	6.2000e-004	1.6000e-004	3.0000e-005	1.9000e-004	0.0000	2.6313	2.6313	1.2000e-004	0.0000	2.6344
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.6000e-004	3.7500e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0202	1.0202	3.0000e-005	0.0000	1.0209
Total	**7.9000e-004**	**0.0104**	**5.8000e-003**	**4.0000e-005**	**1.7700e-003**	**4.0000e-005**	**1.8200e-003**	**4.8000e-004**	**4.0000e-005**	**5.1000e-004**	**0.0000**	**3.6516**	**3.6516**	**1.5000e-004**	**0.0000**	**3.6552**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.3700e-003	0.0000	3.3700e-003	5.1000e-004	0.0000	5.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2385

Total	**0.0331**	**0.3320**	**0.2175**	**3.9000e-004**	**3.3700e-003**	**0.0166**	**0.0200**	**5.1000e-004**	**0.0154**	**0.0159**	**0.0000**	**33.9986**	**33.9986**	**9.6000e-003**	**0.0000**	**34.2385**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.9000e-004	0.0100	2.0500e-003	3.0000e-005	5.8000e-004	3.0000e-005	6.2000e-004	1.6000e-004	3.0000e-005	1.9000e-004	0.0000	2.6313	2.6313	1.2000e-004	0.0000	2.6344
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.6000e-004	3.7500e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0202	1.0202	3.0000e-005	0.0000	1.0209
Total	**7.9000e-004**	**0.0104**	**5.8000e-003**	**4.0000e-005**	**1.7700e-003**	**4.0000e-005**	**1.8200e-003**	**4.8000e-004**	**4.0000e-005**	**5.1000e-004**	**0.0000**	**3.6516**	**3.6516**	**1.5000e-004**	**0.0000**	**3.6552**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	**0.0204**	**0.2121**	**0.1076**	**1.9000e-004**	**0.0903**	**0.0110**	**0.1013**	**0.0497**	**0.0101**	**0.0598**	**0.0000**	**16.7153**	**16.7153**	**5.4100e-003**	**0.0000**	**16.8505**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.1000e-004	2.2500e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6121	0.6121	2.0000e-005	0.0000	0.6125
Total	**3.0000e-004**	**2.1000e-004**	**2.2500e-003**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.6121**	**0.6121**	**2.0000e-005**	**0.0000**	**0.6125**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0407	0.0000	0.0407	0.0223	0.0000	0.0223	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	**0.0204**	**0.2121**	**0.1076**	**1.9000e-004**	**0.0407**	**0.0110**	**0.0516**	**0.0223**	**0.0101**	**0.0325**	**0.0000**	**16.7153**	**16.7153**	**5.4100e-003**	**0.0000**	**16.8505**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.1000e-004	2.2500e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6121	0.6121	2.0000e-005	0.0000	0.6125
Total	**3.0000e-004**	**2.1000e-004**	**2.2500e-003**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.6121**	**0.6121**	**2.0000e-005**	**0.0000**	**0.6125**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0656	0.0000	0.0656	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0243	0.2639	0.1605	3.0000e-004		0.0127	0.0127		0.0117	0.0117	0.0000	26.0588	26.0588	8.4300e-003	0.0000	26.2694
Total	**0.0243**	**0.2639**	**0.1605**	**3.0000e-004**	**0.0656**	**0.0127**	**0.0784**	**0.0337**	**0.0117**	**0.0454**	**0.0000**	**26.0588**	**26.0588**	**8.4300e-003**	**0.0000**	**26.2694**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0400e-003	0.0363	7.4300e-003	1.0000e-004	2.1200e-003	1.2000e-004	2.2400e-003	5.8000e-004	1.1000e-004	7.0000e-004	0.0000	9.5339	9.5339	4.4000e-004	0.0000	9.5448
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.6000e-004	3.7500e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0202	1.0202	3.0000e-005	0.0000	1.0209
Total	**1.5400e-003**	**0.0366**	**0.0112**	**1.1000e-004**	**3.3100e-003**	**1.3000e-004**	**3.4400e-003**	**9.0000e-004**	**1.2000e-004**	**1.0200e-003**	**0.0000**	**10.5541**	**10.5541**	**4.7000e-004**	**0.0000**	**10.5656**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0295	0.0000	0.0295	0.0152	0.0000	0.0152	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0243	0.2639	0.1605	3.0000e-004		0.0127	0.0127		0.0117	0.0117	0.0000	26.0587	26.0587	8.4300e-003	0.0000	26.2694
Total	**0.0243**	**0.2639**	**0.1605**	**3.0000e-004**	**0.0295**	**0.0127**	**0.0423**	**0.0152**	**0.0117**	**0.0269**	**0.0000**	**26.0587**	**26.0587**	**8.4300e-003**	**0.0000**	**26.2694**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0400e-003	0.0363	7.4300e-003	1.0000e-004	2.1200e-003	1.2000e-004	2.2400e-003	5.8000e-004	1.1000e-004	7.0000e-004	0.0000	9.5339	9.5339	4.4000e-004	0.0000	9.5448
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.6000e-004	3.7500e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0202	1.0202	3.0000e-005	0.0000	1.0209
Total	**1.5400e-003**	**0.0366**	**0.0112**	**1.1000e-004**	**3.3100e-003**	**1.3000e-004**	**3.4400e-003**	**9.0000e-004**	**1.2000e-004**	**1.0200e-003**	**0.0000**	**10.5541**	**10.5541**	**4.7000e-004**	**0.0000**	**10.5656**

3.5 utilities - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.4100e-003	0.0339	0.0416	6.0000e-005		1.8700e-003	1.8700e-003		1.7200e-003	1.7200e-003	0.0000	5.4491	5.4491	1.7600e-003	0.0000	5.4932
Total	**3.4100e-003**	**0.0339**	**0.0416**	**6.0000e-005**		**1.8700e-003**	**1.8700e-003**		**1.7200e-003**	**1.7200e-003**	**0.0000**	**5.4491**	**5.4491**	**1.7600e-003**	**0.0000**	**5.4932**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.2000e-004	1.2500e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3401	0.3401	1.0000e-005	0.0000	0.3403
Total	**1.7000e-004**	**1.2000e-004**	**1.2500e-003**	**0.0000**	**4.0000e-004**	**0.0000**	**4.0000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.3401**	**0.3401**	**1.0000e-005**	**0.0000**	**0.3403**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.4100e-003	0.0339	0.0416	6.0000e-005		1.8700e-003	1.8700e-003		1.7200e-003	1.7200e-003	0.0000	5.4491	5.4491	1.7600e-003	0.0000	5.4932

Total	**3.4100e-003**	**0.0339**	**0.0416**	**6.0000e-005**		**1.8700e-003**	**1.8700e-003**		**1.7200e-003**	**1.7200e-003**	**0.0000**	**5.4491**	**5.4491**	**1.7600e-003**	**0.0000**	**5.4932**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.2000e-004	1.2500e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3401	0.3401	1.0000e-005	0.0000	0.3403
Total	**1.7000e-004**	**1.2000e-004**	**1.2500e-003**	**0.0000**	**4.0000e-004**	**0.0000**	**4.0000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.3401**	**0.3401**	**1.0000e-005**	**0.0000**	**0.3403**

3.6 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1102	0.9977	0.8761	1.4000e-003		0.0581	0.0581		0.0546	0.0546	0.0000	120.4372	120.4372	0.0294	0.0000	121.1718
Total	**0.1102**	**0.9977**	**0.8761**	**1.4000e-003**		**0.0581**	**0.0581**		**0.0546**	**0.0546**	**0.0000**	**120.4372**	**120.4372**	**0.0294**	**0.0000**	**121.1718**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0400e-003	0.2309	0.0615	5.5000e-004	0.0133	1.1400e-003	0.0145	3.8600e-003	1.0900e-003	4.9500e-003	0.0000	53.0206	53.0206	2.4300e-003	0.0000	53.0814
Worker	0.0327	0.0235	0.2460	7.4000e-004	0.0780	5.0000e-004	0.0785	0.0207	4.6000e-004	0.0212	0.0000	66.8451	66.8451	1.6400e-003	0.0000	66.8861
Total	**0.0407**	**0.2544**	**0.3075**	**1.2900e-003**	**0.0913**	**1.6400e-003**	**0.0929**	**0.0246**	**1.5500e-003**	**0.0261**	**0.0000**	**119.8657**	**119.8657**	**4.0700e-003**	**0.0000**	**119.9675**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0718	0.6707	0.6880	1.4000e-003		0.0435	0.0435		0.0408	0.0408	0.0000	87.5845	87.5845	0.0205	0.0000	88.0964
Total	**0.0718**	**0.6707**	**0.6880**	**1.4000e-003**		**0.0435**	**0.0435**		**0.0408**	**0.0408**	**0.0000**	**87.5845**	**87.5845**	**0.0205**	**0.0000**	**88.0964**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0400e-003	0.2309	0.0615	5.5000e-004	0.0133	1.1400e-003	0.0145	3.8600e-003	1.0900e-003	4.9500e-003	0.0000	53.0206	53.0206	2.4300e-003	0.0000	53.0814
Worker	0.0327	0.0235	0.2460	7.4000e-004	0.0780	5.0000e-004	0.0785	0.0207	4.6000e-004	0.0212	0.0000	66.8451	66.8451	1.6400e-003	0.0000	66.8861
Total	**0.0407**	**0.2544**	**0.3075**	**1.2900e-003**	**0.0913**	**1.6400e-003**	**0.0929**	**0.0246**	**1.5500e-003**	**0.0261**	**0.0000**	**119.8657**	**119.8657**	**4.0700e-003**	**0.0000**	**119.9675**

3.6 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1198	1.0982	1.0442	1.7000e-003		0.0604	0.0604		0.0568	0.0568	0.0000	145.9315	145.9315	0.0352	0.0000	146.8117
Total	**0.1198**	**1.0982**	**1.0442**	**1.7000e-003**		**0.0604**	**0.0604**		**0.0568**	**0.0568**	**0.0000**	**145.9315**	**145.9315**	**0.0352**	**0.0000**	**146.8117**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0100e-003	0.2525	0.0672	6.6000e-004	0.0162	5.6000e-004	0.0167	4.6700e-003	5.4000e-004	5.2100e-003	0.0000	63.6435	63.6435	2.7700e-003	0.0000	63.7129
Worker	0.0367	0.0254	0.2724	8.6000e-004	0.0944	5.9000e-004	0.0950	0.0251	5.5000e-004	0.0257	0.0000	78.1744	78.1744	1.7800e-003	0.0000	78.2189
Total	**0.0447**	**0.2779**	**0.3396**	**1.5200e-003**	**0.1106**	**1.1500e-003**	**0.1118**	**0.0298**	**1.0900e-003**	**0.0309**	**0.0000**	**141.8180**	**141.8180**	**4.5500e-003**	**0.0000**	**141.9317**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0779	0.7358	0.8267	1.7000e-003		0.0449	0.0449		0.0421	0.0421	0.0000	106.1317	106.1317	0.0246	0.0000	106.7474
Total	**0.0779**	**0.7358**	**0.8267**	**1.7000e-003**		**0.0449**	**0.0449**		**0.0421**	**0.0421**	**0.0000**	**106.1317**	**106.1317**	**0.0246**	**0.0000**	**106.7474**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0100e-003	0.2525	0.0672	6.6000e-004	0.0162	5.6000e-004	0.0167	4.6700e-003	5.4000e-004	5.2100e-003	0.0000	63.6435	63.6435	2.7700e-003	0.0000	63.7129
Worker	0.0367	0.0254	0.2724	8.6000e-004	0.0944	5.9000e-004	0.0950	0.0251	5.5000e-004	0.0257	0.0000	78.1744	78.1744	1.7800e-003	0.0000	78.2189
Total	**0.0447**	**0.2779**	**0.3396**	**1.5200e-003**	**0.1106**	**1.1500e-003**	**0.1118**	**0.0298**	**1.0900e-003**	**0.0309**	**0.0000**	**141.8180**	**141.8180**	**4.5500e-003**	**0.0000**	**141.9317**

3.7 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0126**	**0.1292**	**0.1465**	**2.3000e-004**		**6.7800e-003**	**6.7800e-003**		**6.2400e-003**	**6.2400e-003**	**0.0000**	**20.0235**	**20.0235**	**6.4800e-003**	**0.0000**	**20.1854**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.4300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9848	0.9848	2.0000e-005	0.0000	0.9854
Total	**4.6000e-004**	**3.2000e-004**	**3.4300e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.2000e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9848**	**0.9848**	**2.0000e-005**	**0.0000**	**0.9854**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854

Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0126**	**0.1292**	**0.1465**	**2.3000e-004**		**6.7800e-003**	**6.7800e-003**		**6.2400e-003**	**6.2400e-003**	**0.0000**	**20.0235**	**20.0235**	**6.4800e-003**	**0.0000**	**20.1854**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.4300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9848	0.9848	2.0000e-005	0.0000	0.9854
Total	**4.6000e-004**	**3.2000e-004**	**3.4300e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.2000e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9848**	**0.9848**	**2.0000e-005**	**0.0000**	**0.9854**

3.8 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.9617					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.4100e-003	0.0593	0.0791	1.3000e-004		3.0800e-003	3.0800e-003		3.0600e-003	3.0600e-003	0.0000	10.9791	10.9791	1.6000e-003	0.0000	11.0191
Total	**1.9691**	**0.0593**	**0.0791**	**1.3000e-004**		**3.0800e-003**	**3.0800e-003**		**3.0600e-003**	**3.0600e-003**	**0.0000**	**10.9791**	**10.9791**	**1.6000e-003**	**0.0000**	**11.0191**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1700e-003	8.1000e-004	8.6900e-003	3.0000e-005	3.0100e-003	2.0000e-005	3.0300e-003	8.0000e-004	2.0000e-005	8.2000e-004	0.0000	2.4949	2.4949	6.0000e-005	0.0000	2.4963
Total	**1.1700e-003**	**8.1000e-004**	**8.6900e-003**	**3.0000e-005**	**3.0100e-003**	**2.0000e-005**	**3.0300e-003**	**8.0000e-004**	**2.0000e-005**	**8.2000e-004**	**0.0000**	**2.4949**	**2.4949**	**6.0000e-005**	**0.0000**	**2.4963**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.9617					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.4000e-004	0.0135	0.0246	1.3000e-004		2.6000e-004	2.6000e-004		2.4000e-004	2.4000e-004	0.0000	3.3193	3.3193	1.0700e-003	0.0000	3.3462
Total	**1.9625**	**0.0135**	**0.0246**	**1.3000e-004**		**2.6000e-004**	**2.6000e-004**		**2.4000e-004**	**2.4000e-004**	**0.0000**	**3.3193**	**3.3193**	**1.0700e-003**	**0.0000**	**3.3462**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1700e-003	8.1000e-004	8.6900e-003	3.0000e-005	3.0100e-003	2.0000e-005	3.0300e-003	8.0000e-004	2.0000e-005	8.2000e-004	0.0000	2.4949	2.4949	6.0000e-005	0.0000	2.4963
Total	**1.1700e-003**	**8.1000e-004**	**8.6900e-003**	**3.0000e-005**	**3.0100e-003**	**2.0000e-005**	**3.0300e-003**	**8.0000e-004**	**2.0000e-005**	**8.2000e-004**	**0.0000**	**2.4949**	**2.4949**	**6.0000e-005**	**0.0000**	**2.4963**

1001 N Shoreline Block B and Office Parking (Criteria)

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	51.95	1000sqft	1.19	51,951.00	0
Unenclosed Parking with Elevator	130.82	1000sqft	3.00	100,300.00	0
Condo/Townhouse High Rise	100.00	Dwelling Unit	1.56	152,421.00	286

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - PG&E Rate

Land Use - Building sizes provided and CalEEMod default acreages

Construction Phase - Added trenching phase

Off-road Equipment - added trenching equipment

Trips and VMT - added trenching worker trips

Demolition - estimated tons based on measured area with 3" thickness and 2400lbs/yd3

Grading - material import

Construction Off-road Equipment Mitigation - Electric cranes and stationary equipment

Off-road Equipment - add aerial lifts

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblGrading	MaterialExported	0.00	1,000.00
tblGrading	MaterialImported	0.00	3,240.00
tblLandUse	LandUseSquareFeet	130,820.00	100,300.00
tblLandUse	LandUseSquareFeet	100,000.00	152,421.00
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					

2020	0.2267	2.1719	1.6689	3.6900e-003	0.2521	0.1020	0.3541	0.1072	0.0953	0.2024	0.0000	329.3212	329.3212	0.0593	0.0000	330.8035
2021	1.2795	1.5389	1.5374	3.3200e-003	0.0862	0.0712	0.1574	0.0233	0.0670	0.0903	0.0000	294.6726	294.6726	0.0472	0.0000	295.8521
Maximum	**1.2795**	**2.1719**	**1.6689**	**3.6900e-003**	**0.2521**	**0.1020**	**0.3541**	**0.1072**	**0.0953**	**0.2024**	**0.0000**	**329.3212**	**329.3212**	**0.0593**	**0.0000**	**330.8035**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.1883	1.8449	1.4808	3.6900e-003	0.1562	0.0874	0.2437	0.0598	0.0814	0.1412	0.0000	296.4684	296.4684	0.0504	0.0000	297.7281
2021	1.2311	1.1307	1.2653	3.3200e-003	0.0862	0.0529	0.1391	0.0233	0.0495	0.0728	0.0000	247.2131	247.2131	0.0361	0.0000	248.1149
Maximum	**1.2311**	**1.8449**	**1.4808**	**3.6900e-003**	**0.1562**	**0.0874**	**0.2437**	**0.0598**	**0.0814**	**0.1412**	**0.0000**	**296.4684**	**296.4684**	**0.0504**	**0.0000**	**297.7281**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**5.76**	**19.81**	**14.35**	**0.00**	**28.33**	**19.03**	**25.18**	**36.31**	**19.29**	**26.87**	**0.00**	**12.87**	**12.87**	**18.79**	**0.00**	**12.90**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**6-1-2020**	**8-31-2020**	1.2248	1.1646
2	**9-1-2020**	**11-30-2020**	0.8566	0.6282
3	**12-1-2020**	**2-28-2021**	0.7966	0.5836
4	**3-1-2021**	**5-31-2021**	0.7836	0.5727
5	**6-1-2021**	**8-31-2021**	1.5278	1.4181
		Highest	1.5278	1.4181

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2020	6/26/2020	5	20	
2	Site Preparation	Site Preparation	6/27/2020	7/10/2020	5	10	
3	Grading	Grading	7/11/2020	8/7/2020	5	20	
4	Building Construction	Building Construction	8/8/2020	6/25/2021	5	230	
5	Paving	Paving	6/26/2021	7/23/2021	5	20	
6	Architectural Coating	Architectural Coating	7/24/2021	8/20/2021	5	20	
7	utilities	Trenching	7/11/2020	8/7/2020	5	20	overlaps with grading

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 4.19

Residential Indoor: 308,653; Residential Outdoor: 102,884; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Architectural Coating	Aerial Lifts	3	6.00	63	0.31
utilities	Excavators	1	6.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74

Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	3	6.00	78	0.48
utilities	Tractors/Loaders/Backhoes	1	6.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	168.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	530.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
utilities	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	136.00	36.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	6	27.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Water Exposed Area

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Fugitive Dust					0.0182	0.0000	0.0182	2.7500e-003	0.0000	2.7500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2386
Total	**0.0331**	**0.3320**	**0.2175**	**3.9000e-004**	**0.0182**	**0.0166**	**0.0348**	**2.7500e-003**	**0.0154**	**0.0182**	**0.0000**	**33.9986**	**33.9986**	**9.6000e-003**	**0.0000**	**34.2386**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.0000e-004	0.0244	4.9900e-003	7.0000e-005	1.4200e-003	8.0000e-005	1.5000e-003	3.9000e-004	8.0000e-005	4.7000e-004	0.0000	6.4068	6.4068	2.9000e-004	0.0000	6.4141
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.6000e-004	3.7500e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0202	1.0202	3.0000e-005	0.0000	1.0209
Total	**1.2000e-003**	**0.0247**	**8.7400e-003**	**8.0000e-005**	**2.6100e-003**	**9.0000e-005**	**2.7000e-003**	**7.1000e-004**	**9.0000e-005**	**7.9000e-004**	**0.0000**	**7.4270**	**7.4270**	**3.2000e-004**	**0.0000**	**7.4349**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.1900e-003	0.0000	8.1900e-003	1.2400e-003	0.0000	1.2400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2385
Total	**0.0331**	**0.3320**	**0.2175**	**3.9000e-004**	**8.1900e-003**	**0.0166**	**0.0248**	**1.2400e-003**	**0.0154**	**0.0167**	**0.0000**	**33.9986**	**33.9986**	**9.6000e-003**	**0.0000**	**34.2385**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.0000e-004	0.0244	4.9900e-003	7.0000e-005	1.4200e-003	8.0000e-005	1.5000e-003	3.9000e-004	8.0000e-005	4.7000e-004	0.0000	6.4068	6.4068	2.9000e-004	0.0000	6.4141
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.6000e-004	3.7500e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0202	1.0202	3.0000e-005	0.0000	1.0209
Total	**1.2000e-003**	**0.0247**	**8.7400e-003**	**8.0000e-005**	**2.6100e-003**	**9.0000e-005**	**2.7000e-003**	**7.1000e-004**	**9.0000e-005**	**7.9000e-004**	**0.0000**	**7.4270**	**7.4270**	**3.2000e-004**	**0.0000**	**7.4349**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	**0.0204**	**0.2121**	**0.1076**	**1.9000e-004**	**0.0903**	**0.0110**	**0.1013**	**0.0497**	**0.0101**	**0.0598**	**0.0000**	**16.7153**	**16.7153**	**5.4100e-003**	**0.0000**	**16.8505**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.1000e-004	2.2500e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6121	0.6121	2.0000e-005	0.0000	0.6125
Total	**3.0000e-004**	**2.1000e-004**	**2.2500e-003**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.6121**	**0.6121**	**2.0000e-005**	**0.0000**	**0.6125**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0407	0.0000	0.0407	0.0223	0.0000	0.0223	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	**0.0204**	**0.2121**	**0.1076**	**1.9000e-004**	**0.0407**	**0.0110**	**0.0516**	**0.0223**	**0.0101**	**0.0325**	**0.0000**	**16.7153**	**16.7153**	**5.4100e-003**	**0.0000**	**16.8505**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.1000e-004	2.2500e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6121	0.6121	2.0000e-005	0.0000	0.6125

Total	**3.0000e-004**	**2.1000e-004**	**2.2500e-003**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.6121**	**0.6121**	**2.0000e-005**	**0.0000**	**0.6125**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0658	0.0000	0.0658	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0243	0.2639	0.1605	3.0000e-004		0.0127	0.0127		0.0117	0.0117	0.0000	26.0588	26.0588	8.4300e-003	0.0000	26.2694
Total	**0.0243**	**0.2639**	**0.1605**	**3.0000e-004**	**0.0658**	**0.0127**	**0.0785**	**0.0337**	**0.0117**	**0.0454**	**0.0000**	**26.0588**	**26.0588**	**8.4300e-003**	**0.0000**	**26.2694**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.2000e-003	0.0769	0.0158	2.1000e-004	4.4900e-003	2.5000e-004	4.7400e-003	1.2400e-003	2.4000e-004	1.4700e-003	0.0000	20.2118	20.2118	9.2000e-004	0.0000	20.2349
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.6000e-004	3.7500e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0202	1.0202	3.0000e-005	0.0000	1.0209
Total	**2.7000e-003**	**0.0773**	**0.0195**	**2.2000e-004**	**5.6800e-003**	**2.6000e-004**	**5.9400e-003**	**1.5600e-003**	**2.5000e-004**	**1.7900e-003**	**0.0000**	**21.2320**	**21.2320**	**9.5000e-004**	**0.0000**	**21.2557**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0296	0.0000	0.0296	0.0152	0.0000	0.0152	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0243	0.2639	0.1605	3.0000e-004		0.0127	0.0127		0.0117	0.0117	0.0000	26.0587	26.0587	8.4300e-003	0.0000	26.2694
Total	**0.0243**	**0.2639**	**0.1605**	**3.0000e-004**	**0.0296**	**0.0127**	**0.0423**	**0.0152**	**0.0117**	**0.0269**	**0.0000**	**26.0587**	**26.0587**	**8.4300e-003**	**0.0000**	**26.2694**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.2000e-003	0.0769	0.0158	2.1000e-004	4.4900e-003	2.5000e-004	4.7400e-003	1.2400e-003	2.4000e-004	1.4700e-003	0.0000	20.2118	20.2118	9.2000e-004	0.0000	20.2349
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.6000e-004	3.7500e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0202	1.0202	3.0000e-005	0.0000	1.0209
Total	**2.7000e-003**	**0.0773**	**0.0195**	**2.2000e-004**	**5.6800e-003**	**2.6000e-004**	**5.9400e-003**	**1.5600e-003**	**2.5000e-004**	**1.7900e-003**	**0.0000**	**21.2320**	**21.2320**	**9.5000e-004**	**0.0000**	**21.2557**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Off-Road	0.1102	0.9977	0.8761	1.4000e-003		0.0581	0.0581		0.0546	0.0546	0.0000	120.4372	120.4372	0.0294	0.0000	121.1718
Total	**0.1102**	**0.9977**	**0.8761**	**1.4000e-003**		**0.0581**	**0.0581**		**0.0546**	**0.0546**	**0.0000**	**120.4372**	**120.4372**	**0.0294**	**0.0000**	**121.1718**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.4200e-003	0.2132	0.0568	5.1000e-004	0.0123	1.0600e-003	0.0134	3.5600e-003	1.0100e-003	4.5700e-003	0.0000	48.9421	48.9421	2.2400e-003	0.0000	48.9982
Worker	0.0235	0.0169	0.1770	5.3000e-004	0.0561	3.6000e-004	0.0565	0.0149	3.3000e-004	0.0153	0.0000	48.1002	48.1002	1.1800e-003	0.0000	48.1297
Total	**0.0309**	**0.2300**	**0.2338**	**1.0400e-003**	**0.0684**	**1.4200e-003**	**0.0698**	**0.0185**	**1.3400e-003**	**0.0198**	**0.0000**	**97.0423**	**97.0423**	**3.4200e-003**	**0.0000**	**97.1279**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0718	0.6707	0.6880	1.4000e-003		0.0435	0.0435		0.0408	0.0408	0.0000	87.5845	87.5845	0.0205	0.0000	88.0964
Total	**0.0718**	**0.6707**	**0.6880**	**1.4000e-003**		**0.0435**	**0.0435**		**0.0408**	**0.0408**	**0.0000**	**87.5845**	**87.5845**	**0.0205**	**0.0000**	**88.0964**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.4200e-003	0.2132	0.0568	5.1000e-004	0.0123	1.0600e-003	0.0134	3.5600e-003	1.0100e-003	4.5700e-003	0.0000	48.9421	48.9421	2.2400e-003	0.0000	48.9982
Worker	0.0235	0.0169	0.1770	5.3000e-004	0.0561	3.6000e-004	0.0565	0.0149	3.3000e-004	0.0153	0.0000	48.1002	48.1002	1.1800e-003	0.0000	48.1297
Total	**0.0309**	**0.2300**	**0.2338**	**1.0400e-003**	**0.0684**	**1.4200e-003**	**0.0698**	**0.0185**	**1.3400e-003**	**0.0198**	**0.0000**	**97.0423**	**97.0423**	**3.4200e-003**	**0.0000**	**97.1279**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1198	1.0982	1.0442	1.7000e-003		0.0604	0.0604		0.0568	0.0568	0.0000	145.9315	145.9315	0.0352	0.0000	146.8117
Total	**0.1198**	**1.0982**	**1.0442**	**1.7000e-003**		**0.0604**	**0.0604**		**0.0568**	**0.0568**	**0.0000**	**145.9315**	**145.9315**	**0.0352**	**0.0000**	**146.8117**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.4000e-003	0.2331	0.0620	6.1000e-004	0.0149	5.2000e-004	0.0154	4.3100e-003	4.9000e-004	4.8100e-003	0.0000	58.7479	58.7479	2.5600e-003	0.0000	58.8119
Worker	0.0264	0.0183	0.1960	6.2000e-004	0.0680	4.3000e-004	0.0684	0.0181	3.9000e-004	0.0185	0.0000	56.2525	56.2525	1.2800e-003	0.0000	56.2845
Total	**0.0338**	**0.2513**	**0.2580**	**1.2300e-003**	**0.0829**	**9.5000e-004**	**0.0838**	**0.0224**	**8.8000e-004**	**0.0233**	**0.0000**	**115.0004**	**115.0004**	**3.8400e-003**	**0.0000**	**115.0964**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0779	0.7358	0.8267	1.7000e-003		0.0449	0.0449		0.0421	0.0421	0.0000	106.1317	106.1317	0.0246	0.0000	106.7474
Total	**0.0779**	**0.7358**	**0.8267**	**1.7000e-003**		**0.0449**	**0.0449**		**0.0421**	**0.0421**	**0.0000**	**106.1317**	**106.1317**	**0.0246**	**0.0000**	**106.7474**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.4000e-003	0.2331	0.0620	6.1000e-004	0.0149	5.2000e-004	0.0154	4.3100e-003	4.9000e-004	4.8100e-003	0.0000	58.7479	58.7479	2.5600e-003	0.0000	58.8119
Worker	0.0264	0.0183	0.1960	6.2000e-004	0.0680	4.3000e-004	0.0684	0.0181	3.9000e-004	0.0185	0.0000	56.2525	56.2525	1.2800e-003	0.0000	56.2845

Total	**0.0338**	**0.2513**	**0.2580**	**1.2300e-003**	**0.0829**	**9.5000e-004**	**0.0838**	**0.0224**	**8.8000e-004**	**0.0233**	**0.0000**	**115.0004**	**115.0004**	**3.8400e-003**	**0.0000**	**115.0964**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0126**	**0.1292**	**0.1465**	**2.3000e-004**		**6.7800e-003**	**6.7800e-003**		**6.2400e-003**	**6.2400e-003**	**0.0000**	**20.0235**	**20.0235**	**6.4800e-003**	**0.0000**	**20.1854**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.4300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9848	0.9848	2.0000e-005	0.0000	0.9854
Total	**4.6000e-004**	**3.2000e-004**	**3.4300e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.2000e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9848**	**0.9848**	**2.0000e-005**	**0.0000**	**0.9854**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0126**	**0.1292**	**0.1465**	**2.3000e-004**		**6.7800e-003**	**6.7800e-003**		**6.2400e-003**	**6.2400e-003**	**0.0000**	**20.0235**	**20.0235**	**6.4800e-003**	**0.0000**	**20.1854**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.4300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9848	0.9848	2.0000e-005	0.0000	0.9854
Total	**4.6000e-004**	**3.2000e-004**	**3.4300e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.2000e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9848**	**0.9848**	**2.0000e-005**	**0.0000**	**0.9854**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Archit. Coating	1.1047					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.4100e-003	0.0592	0.0790	1.3000e-004		3.0800e-003	3.0800e-003		3.0600e-003	3.0600e-003	0.0000	10.9598	10.9598	1.5900e-003	0.0000	10.9997
Total	**1.1121**	**0.0592**	**0.0790**	**1.3000e-004**		**3.0800e-003**	**3.0800e-003**		**3.0600e-003**	**3.0600e-003**	**0.0000**	**10.9598**	**10.9598**	**1.5900e-003**	**0.0000**	**10.9997**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3000e-004	5.8000e-004	6.1800e-003	2.0000e-005	2.1400e-003	1.0000e-005	2.1500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.7727	1.7727	4.0000e-005	0.0000	1.7737
Total	**8.3000e-004**	**5.8000e-004**	**6.1800e-003**	**2.0000e-005**	**2.1400e-003**	**1.0000e-005**	**2.1500e-003**	**5.7000e-004**	**1.0000e-005**	**5.8000e-004**	**0.0000**	**1.7727**	**1.7727**	**4.0000e-005**	**0.0000**	**1.7737**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1047					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.4000e-004	0.0134	0.0245	1.3000e-004		2.6000e-004	2.6000e-004		2.4000e-004	2.4000e-004	0.0000	3.3001	3.3001	1.0700e-003	0.0000	3.3268
Total	**1.1056**	**0.0134**	**0.0245**	**1.3000e-004**		**2.6000e-004**	**2.6000e-004**		**2.4000e-004**	**2.4000e-004**	**0.0000**	**3.3001**	**3.3001**	**1.0700e-003**	**0.0000**	**3.3268**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3000e-004	5.8000e-004	6.1800e-003	2.0000e-005	2.1400e-003	1.0000e-005	2.1500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.7727	1.7727	4.0000e-005	0.0000	1.7737
Total	**8.3000e-004**	**5.8000e-004**	**6.1800e-003**	**2.0000e-005**	**2.1400e-003**	**1.0000e-005**	**2.1500e-003**	**5.7000e-004**	**1.0000e-005**	**5.8000e-004**	**0.0000**	**1.7727**	**1.7727**	**4.0000e-005**	**0.0000**	**1.7737**

3.8 utilities - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.4100e-003	0.0339	0.0417	6.0000e-005		1.8800e-003	1.8800e-003		1.7300e-003	1.7300e-003	0.0000	5.4579	5.4579	1.7700e-003	0.0000	5.5020
Total	**3.4100e-003**	**0.0339**	**0.0417**	**6.0000e-005**		**1.8800e-003**	**1.8800e-003**		**1.7300e-003**	**1.7300e-003**	**0.0000**	**5.4579**	**5.4579**	**1.7700e-003**	**0.0000**	**5.5020**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.2000e-004	1.2500e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3401	0.3401	1.0000e-005	0.0000	0.3403
Total	**1.7000e-004**	**1.2000e-004**	**1.2500e-003**	**0.0000**	**4.0000e-004**	**0.0000**	**4.0000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.3401**	**0.3401**	**1.0000e-005**	**0.0000**	**0.3403**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.4100e-003	0.0339	0.0417	6.0000e-005		1.8800e-003	1.8800e-003		1.7300e-003	1.7300e-003	0.0000	5.4579	5.4579	1.7700e-003	0.0000	5.5020
Total	**3.4100e-003**	**0.0339**	**0.0417**	**6.0000e-005**		**1.8800e-003**	**1.8800e-003**		**1.7300e-003**	**1.7300e-003**	**0.0000**	**5.4579**	**5.4579**	**1.7700e-003**	**0.0000**	**5.5020**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.2000e-004	1.2500e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3401	0.3401	1.0000e-005	0.0000	0.3403

Total	**1.7000e-004**	**1.2000e-004**	**1.2500e-003**	**0.0000**	**4.0000e-004**	**0.0000**	**4.0000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.3401**	**0.3401**	**1.0000e-005**	**0.0000**	**0.3403**

1001 N Shoreline Block B and Office Parking (TAC)

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	51.95	1000sqft	1.19	51,951.00	0
Unenclosed Parking with Elevator	130.82	1000sqft	3.00	100,300.00	0
Condo/Townhouse High Rise	100.00	Dwelling Unit	1.56	152,421.00	286

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - PG&E Rate

Land Use - Building sizes provided and CalEEMod default acreages

Construction Phase - Added trenching phase

Off-road Equipment - add aerial lifts

Off-road Equipment - added trenching equipment

Trips and VMT - added trenching worker trips, TAC Trip length 1 mile

Demolition - estimated tons based on measured area with 3" thickness and 2400lbs/yd3

Grading - material import

Construction Off-road Equipment Mitigation - Electric cranes and stationary equipment, BMPS, Tier 3 DPF 3

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblGrading	MaterialExported	0.00	1,000.00
tblGrading	MaterialImported	0.00	3,240.00
tblLandUse	LandUseSquareFeet	51,950.00	51,951.00
tblLandUse	LandUseSquareFeet	130,820.00	100,300.00
tblLandUse	LandUseSquareFeet	100,000.00	152,421.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblTripsAndVMT	HaulingTripLength	20.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	1.00
tblTripsAndVMT	VendorTripLength	7.30	1.00
tblTripsAndVMT	VendorTripLength	7.30	1.00
tblTripsAndVMT	VendorTripLength	7.30	1.00
tblTripsAndVMT	VendorTripLength	7.30	1.00

tblTripsAndVMT	VendorTripLength	7.30	1.00
tblTripsAndVMT	VendorTripLength	7.30	1.00
tblTripsAndVMT	VendorTripLength	7.30	1.00
tblTripsAndVMT	WorkerTripLength	10.80	1.00
tblTripsAndVMT	WorkerTripLength	10.80	1.00
tblTripsAndVMT	WorkerTripLength	10.80	1.00
tblTripsAndVMT	WorkerTripLength	10.80	1.00
tblTripsAndVMT	WorkerTripLength	10.80	1.00
tblTripsAndVMT	WorkerTripLength	10.80	1.00
tblTripsAndVMT	WorkerTripLength	10.80	1.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.2041	2.0045	1.4932	2.6100e-003	0.1819	0.1006	0.2825	0.0882	0.0939	0.1821	0.0000	228.3286	228.3286	0.0568	0.0000	229.7483
2021	1.2574	1.4349	1.3619	2.3200e-003	8.7800e-003	0.0705	0.0792	2.4000e-003	0.0663	0.0687	0.0000	202.0284	202.0284	0.0452	0.0000	203.1592
Maximum	**1.2574**	**2.0045**	**1.4932**	**2.6100e-003**	**0.1819**	**0.1006**	**0.2825**	**0.0882**	**0.0939**	**0.1821**	**0.0000**	**228.3286**	**228.3286**	**0.0568**	**0.0000**	**229.7483**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Year	tons/yr										MT/yr					
2020	0.0584	1.1504	1.4001	2.6100e-003	0.0860	9.2600e-003	0.0953	0.0215	9.2400e-003	0.0307	0.0000	195.4758	195.4758	0.0479	0.0000	196.6729
2021	1.1521	0.9210	1.1560	2.3200e-003	8.7800e-003	8.0600e-003	0.0168	2.4000e-003	8.0500e-003	0.0105	0.0000	154.5688	154.5688	0.0341	0.0000	155.4220
Maximum	**1.1521**	**1.1504**	**1.4001**	**2.6100e-003**	**0.0860**	**9.2600e-003**	**0.0953**	**0.0215**	**9.2400e-003**	**0.0307**	**0.0000**	**195.4758**	**195.4758**	**0.0479**	**0.0000**	**196.6729**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**17.17**	**39.77**	**10.47**	**0.00**	**50.27**	**89.87**	**69.00**	**73.66**	**89.20**	**83.59**	**0.00**	**18.66**	**18.66**	**19.61**	**0.00**	**18.67**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**6-1-2020**	**8-31-2020**	1.1402	0.6186
2	**9-1-2020**	**11-30-2020**	0.7799	0.4314
3	**12-1-2020**	**2-28-2021**	0.7260	0.4229
4	**3-1-2021**	**5-31-2021**	0.7195	0.4319
5	**6-1-2021**	**8-31-2021**	1.5096	1.3637
		Highest	1.5096	1.3637

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2020	6/26/2020	5	20	
2	Site Preparation	Site Preparation	6/27/2020	7/10/2020	5	10	
3	Grading	Grading	7/11/2020	8/7/2020	5	20	
4	utilities	Trenching	7/11/2020	8/7/2020	5	20	overlaps with grading
5	Building Construction	Building Construction	8/8/2020	6/25/2021	5	230	
6	Paving	Paving	6/26/2021	7/23/2021	5	20	
7	Architectural Coating	Architectural Coating	7/24/2021	8/20/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 4.19

Residential Indoor: 308,653; Residential Outdoor: 102,884; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Aerial Lifts	3	6.00	63	0.31
Architectural Coating	Air Compressors	3	6.00	78	0.48
utilities	Excavators	1	6.00	158	0.38
utilities	Tractors/Loaders/Backhoes	1	6.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	168.00	1.00	1.00	1.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	1.00	1.00	1.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	530.00	1.00	1.00	1.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	136.00	36.00	0.00	1.00	1.00	1.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	1.00	1.00	1.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	6	27.00	0.00	0.00	1.00	1.00	1.00	LD_Mix	HDT_Mix	HHDT
utilities	2	5.00	0.00	0.00	1.00	1.00	1.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0182	0.0000	0.0182	2.7500e-003	0.0000	2.7500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2386
Total	**0.0331**	**0.3320**	**0.2175**	**3.9000e-004**	**0.0182**	**0.0166**	**0.0348**	**2.7500e-003**	**0.0154**	**0.0182**	**0.0000**	**33.9986**	**33.9986**	**9.6000e-003**	**0.0000**	**34.2386**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8000e-004	8.6600e-003	1.4100e-003	1.0000e-005	7.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	1.0910	1.0910	1.2000e-004	0.0000	1.0939
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	8.0000e-005	9.8000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1220	0.1220	1.0000e-005	0.0000	0.1221
Total	**3.5000e-004**	**8.7400e-003**	**2.3900e-003**	**1.0000e-005**	**1.8000e-004**	**1.0000e-005**	**1.9000e-004**	**5.0000e-005**	**1.0000e-005**	**6.0000e-005**	**0.0000**	**1.2130**	**1.2130**	**1.3000e-004**	**0.0000**	**1.2160**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.1900e-003	0.0000	8.1900e-003	6.2000e-004	0.0000	6.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.2500e-003	0.1831	0.2467	3.9000e-004		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2385
Total	**9.2500e-003**	**0.1831**	**0.2467**	**3.9000e-004**	**8.1900e-003**	**1.2900e-003**	**9.4800e-003**	**6.2000e-004**	**1.2900e-003**	**1.9100e-003**	**0.0000**	**33.9986**	**33.9986**	**9.6000e-003**	**0.0000**	**34.2385**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8000e-004	8.6600e-003	1.4100e-003	1.0000e-005	7.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	1.0910	1.0910	1.2000e-004	0.0000	1.0939
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	8.0000e-005	9.8000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1220	0.1220	1.0000e-005	0.0000	0.1221
Total	**3.5000e-004**	**8.7400e-003**	**2.3900e-003**	**1.0000e-005**	**1.8000e-004**	**1.0000e-005**	**1.9000e-004**	**5.0000e-005**	**1.0000e-005**	**6.0000e-005**	**0.0000**	**1.2130**	**1.2130**	**1.3000e-004**	**0.0000**	**1.2160**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	**0.0204**	**0.2121**	**0.1076**	**1.9000e-004**	**0.0903**	**0.0110**	**0.1013**	**0.0497**	**0.0101**	**0.0598**	**0.0000**	**16.7153**	**16.7153**	**5.4100e-003**	**0.0000**	**16.8505**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	5.0000e-005	5.9000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0732	0.0732	0.0000	0.0000	0.0733
Total	**1.0000e-004**	**5.0000e-005**	**5.9000e-004**	**0.0000**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0732**	**0.0732**	**0.0000**	**0.0000**	**0.0733**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0407	0.0000	0.0407	0.0112	0.0000	0.0112	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6600e-003	0.0953	0.1148	1.9000e-004		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	**4.6600e-003**	**0.0953**	**0.1148**	**1.9000e-004**	**0.0407**	**7.1000e-004**	**0.0414**	**0.0112**	**7.1000e-004**	**0.0119**	**0.0000**	**16.7153**	**16.7153**	**5.4100e-003**	**0.0000**	**16.8505**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	5.0000e-005	5.9000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0732	0.0732	0.0000	0.0000	0.0733
Total	**1.0000e-004**	**5.0000e-005**	**5.9000e-004**	**0.0000**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0732**	**0.0732**	**0.0000**	**0.0000**	**0.0733**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0658	0.0000	0.0658	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0243	0.2639	0.1605	3.0000e-004		0.0127	0.0127		0.0117	0.0117	0.0000	26.0588	26.0588	8.4300e-003	0.0000	26.2694
Total	**0.0243**	**0.2639**	**0.1605**	**3.0000e-004**	**0.0658**	**0.0127**	**0.0785**	**0.0337**	**0.0117**	**0.0454**	**0.0000**	**26.0588**	**26.0588**	**8.4300e-003**	**0.0000**	**26.2694**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.8000e-004	0.0273	4.4600e-003	4.0000e-005	2.3000e-004	3.0000e-005	2.6000e-004	6.0000e-005	2.0000e-005	9.0000e-005	0.0000	3.4418	3.4418	3.7000e-004	0.0000	3.4510
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	8.0000e-005	9.8000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1220	0.1220	1.0000e-005	0.0000	0.1221
Total	**7.5000e-004**	**0.0274**	**5.4400e-003**	**4.0000e-005**	**3.4000e-004**	**3.0000e-005**	**3.7000e-004**	**9.0000e-005**	**2.0000e-005**	**1.2000e-004**	**0.0000**	**3.5638**	**3.5638**	**3.8000e-004**	**0.0000**	**3.5731**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Fugitive Dust					0.0296	0.0000	0.0296	7.5900e-003	0.0000	7.5900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2600e-003	0.1484	0.1899	3.0000e-004		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003	0.0000	26.0587	26.0587	8.4300e-003	0.0000	26.2694
Total	**7.2600e-003**	**0.1484**	**0.1899**	**3.0000e-004**	**0.0296**	**1.1300e-003**	**0.0307**	**7.5900e-003**	**1.1300e-003**	**8.7200e-003**	**0.0000**	**26.0587**	**26.0587**	**8.4300e-003**	**0.0000**	**26.2694**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.8000e-004	0.0273	4.4600e-003	4.0000e-005	2.3000e-004	3.0000e-005	2.6000e-004	6.0000e-005	2.0000e-005	9.0000e-005	0.0000	3.4418	3.4418	3.7000e-004	0.0000	3.4510
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	8.0000e-005	9.8000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1220	0.1220	1.0000e-005	0.0000	0.1221
Total	**7.5000e-004**	**0.0274**	**5.4400e-003**	**4.0000e-005**	**3.4000e-004**	**3.0000e-005**	**3.7000e-004**	**9.0000e-005**	**2.0000e-005**	**1.2000e-004**	**0.0000**	**3.5638**	**3.5638**	**3.8000e-004**	**0.0000**	**3.5731**

3.5 utilities - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.4100e-003	0.0339	0.0416	6.0000e-005		1.8700e-003	1.8700e-003		1.7200e-003	1.7200e-003	0.0000	5.4491	5.4491	1.7600e-003	0.0000	5.4932
Total	**3.4100e-003**	**0.0339**	**0.0416**	**6.0000e-005**		**1.8700e-003**	**1.8700e-003**		**1.7200e-003**	**1.7200e-003**	**0.0000**	**5.4491**	**5.4491**	**1.7600e-003**	**0.0000**	**5.4932**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	3.0000e-005	3.3000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0407	0.0407	0.0000	0.0000	0.0407
Total	**6.0000e-005**	**3.0000e-005**	**3.3000e-004**	**0.0000**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0407**	**0.0407**	**0.0000**	**0.0000**	**0.0407**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5200e-003	0.0314	0.0470	6.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	5.4491	5.4491	1.7600e-003	0.0000	5.4932
Total	**1.5200e-003**	**0.0314**	**0.0470**	**6.0000e-005**		**2.7000e-004**	**2.7000e-004**		**2.7000e-004**	**2.7000e-004**	**0.0000**	**5.4491**	**5.4491**	**1.7600e-003**	**0.0000**	**5.4932**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	3.0000e-005	3.3000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0407	0.0407	0.0000	0.0000	0.0407
Total	**6.0000e-005**	**3.0000e-005**	**3.3000e-004**	**0.0000**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0407**	**0.0407**	**0.0000**	**0.0000**	**0.0407**

3.6 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1102	0.9977	0.8761	1.4000e-003		0.0581	0.0581		0.0546	0.0546	0.0000	120.4372	120.4372	0.0294	0.0000	121.1718
Total	**0.1102**	**0.9977**	**0.8761**	**1.4000e-003**		**0.0581**	**0.0581**		**0.0546**	**0.0546**	**0.0000**	**120.4372**	**120.4372**	**0.0294**	**0.0000**	**121.1718**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5300e-003	0.1252	0.0348	1.6000e-004	1.7300e-003	2.0000e-004	1.9300e-003	5.0000e-004	1.9000e-004	7.0000e-004	0.0000	15.0280	15.0280	1.4700e-003	0.0000	15.0647
Worker	7.8300e-003	3.5900e-003	0.0464	6.0000e-005	5.2600e-003	7.0000e-005	5.3300e-003	1.4100e-003	7.0000e-005	1.4700e-003	0.0000	5.7510	5.7510	2.5000e-004	0.0000	5.7572
Total	**0.0114**	**0.1288**	**0.0811**	**2.2000e-004**	**6.9900e-003**	**2.7000e-004**	**7.2600e-003**	**1.9100e-003**	**2.6000e-004**	**2.1700e-003**	**0.0000**	**20.7790**	**20.7790**	**1.7200e-003**	**0.0000**	**20.8218**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0231	0.5271	0.7118	1.4000e-003		5.5400e-003	5.5400e-003		5.5400e-003	5.5400e-003	0.0000	87.5845	87.5845	0.0205	0.0000	88.0964
Total	**0.0231**	**0.5271**	**0.7118**	**1.4000e-003**		**5.5400e-003**	**5.5400e-003**		**5.5400e-003**	**5.5400e-003**	**0.0000**	**87.5845**	**87.5845**	**0.0205**	**0.0000**	**88.0964**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5300e-003	0.1252	0.0348	1.6000e-004	1.7300e-003	2.0000e-004	1.9300e-003	5.0000e-004	1.9000e-004	7.0000e-004	0.0000	15.0280	15.0280	1.4700e-003	0.0000	15.0647
Worker	7.8300e-003	3.5900e-003	0.0464	6.0000e-005	5.2600e-003	7.0000e-005	5.3300e-003	1.4100e-003	7.0000e-005	1.4700e-003	0.0000	5.7510	5.7510	2.5000e-004	0.0000	5.7572
Total	**0.0114**	**0.1288**	**0.0811**	**2.2000e-004**	**6.9900e-003**	**2.7000e-004**	**7.2600e-003**	**1.9100e-003**	**2.6000e-004**	**2.1700e-003**	**0.0000**	**20.7790**	**20.7790**	**1.7200e-003**	**0.0000**	**20.8218**

3.6 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1198	1.0982	1.0442	1.7000e-003		0.0604	0.0604		0.0568	0.0568	0.0000	145.9315	145.9315	0.0352	0.0000	146.8117
Total	**0.1198**	**1.0982**	**1.0442**	**1.7000e-003**		**0.0604**	**0.0604**		**0.0568**	**0.0568**	**0.0000**	**145.9315**	**145.9315**	**0.0352**	**0.0000**	**146.8117**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.8300e-003	0.1442	0.0388	1.9000e-004	2.1000e-003	1.2000e-004	2.2200e-003	6.1000e-004	1.2000e-004	7.3000e-004	0.0000	18.0334	18.0334	1.6700e-003	0.0000	18.0752
Worker	8.6700e-003	3.8300e-003	0.0506	7.0000e-005	6.3700e-003	9.0000e-005	6.4500e-003	1.7000e-003	8.0000e-005	1.7800e-003	0.0000	6.7310	6.7310	2.6000e-004	0.0000	6.7376
Total	**0.0125**	**0.1480**	**0.0895**	**2.6000e-004**	**8.4700e-003**	**2.1000e-004**	**8.6700e-003**	**2.3100e-003**	**2.0000e-004**	**2.5100e-003**	**0.0000**	**24.7644**	**24.7644**	**1.9300e-003**	**0.0000**	**24.8128**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0280	0.6387	0.8624	1.7000e-003		6.7100e-003	6.7100e-003		6.7100e-003	6.7100e-003	0.0000	106.1317	106.1317	0.0246	0.0000	106.7474
Total	**0.0280**	**0.6387**	**0.8624**	**1.7000e-003**		**6.7100e-003**	**6.7100e-003**		**6.7100e-003**	**6.7100e-003**	**0.0000**	**106.1317**	**106.1317**	**0.0246**	**0.0000**	**106.7474**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.8300e-003	0.1442	0.0388	1.9000e-004	2.1000e-003	1.2000e-004	2.2200e-003	6.1000e-004	1.2000e-004	7.3000e-004	0.0000	18.0334	18.0334	1.6700e-003	0.0000	18.0752
Worker	8.6700e-003	3.8300e-003	0.0506	7.0000e-005	6.3700e-003	9.0000e-005	6.4500e-003	1.7000e-003	8.0000e-005	1.7800e-003	0.0000	6.7310	6.7310	2.6000e-004	0.0000	6.7376
Total	**0.0125**	**0.1480**	**0.0895**	**2.6000e-004**	**8.4700e-003**	**2.1000e-004**	**8.6700e-003**	**2.3100e-003**	**2.0000e-004**	**2.5100e-003**	**0.0000**	**24.7644**	**24.7644**	**1.9300e-003**	**0.0000**	**24.8128**

3.7 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854

Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0126**	**0.1292**	**0.1465**	**2.3000e-004**		**6.7800e-003**	**6.7800e-003**		**6.2400e-003**	**6.2400e-003**	**0.0000**	**20.0235**	**20.0235**	**6.4800e-003**	**0.0000**	**20.1854**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	7.0000e-005	8.9000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1178	0.1178	0.0000	0.0000	0.1180
Total	**1.5000e-004**	**7.0000e-005**	**8.9000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1178**	**0.1178**	**0.0000**	**0.0000**	**0.1180**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.6100e-003	0.1130	0.1730	2.3000e-004		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.6100e-003**	**0.1130**	**0.1730**	**2.3000e-004**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**20.0235**	**20.0235**	**6.4800e-003**	**0.0000**	**20.1854**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	7.0000e-005	8.9000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1178	0.1178	0.0000	0.0000	0.1180
Total	**1.5000e-004**	**7.0000e-005**	**8.9000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1178**	**0.1178**	**0.0000**	**0.0000**	**0.1180**

3.8 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1047					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.4100e-003	0.0593	0.0791	1.3000e-004		3.0800e-003	3.0800e-003		3.0600e-003	3.0600e-003	0.0000	10.9791	10.9791	1.6000e-003	0.0000	11.0191
Total	**1.1121**	**0.0593**	**0.0791**	**1.3000e-004**		**3.0800e-003**	**3.0800e-003**		**3.0600e-003**	**3.0600e-003**	**0.0000**	**10.9791**	**10.9791**	**1.6000e-003**	**0.0000**	**11.0191**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	1.2000e-004	1.6000e-003	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.2121	0.2121	1.0000e-005	0.0000	0.2123
Total	**2.7000e-004**	**1.2000e-004**	**1.6000e-003**	**0.0000**	**2.0000e-004**	**0.0000**	**2.0000e-004**	**5.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.2121**	**0.2121**	**1.0000e-005**	**0.0000**	**0.2123**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1047					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.3000e-004	0.0212	0.0287	1.3000e-004		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.3193	3.3193	1.0700e-003	0.0000	3.3462
Total	**1.1056**	**0.0212**	**0.0287**	**1.3000e-004**		**2.2000e-004**	**2.2000e-004**		**2.2000e-004**	**2.2000e-004**	**0.0000**	**3.3193**	**3.3193**	**1.0700e-003**	**0.0000**	**3.3462**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	1.2000e-004	1.6000e-003	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.2121	0.2121	1.0000e-005	0.0000	0.2123
Total	**2.7000e-004**	**1.2000e-004**	**1.6000e-003**	**0.0000**	**2.0000e-004**	**0.0000**	**2.0000e-004**	**5.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.2121**	**0.2121**	**1.0000e-005**	**0.0000**	**0.2123**

1001 N Shoreline Block A, TAC - Santa Clara County, Annual

1001 N Shoreline Block A, (TAC Sequence)

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	244.00	Space	2.20	99,629.00	0
Apartments Mid Rise	203.00	Dwelling Unit	5.34	273,500.00	581
Strip Mall	3.00	1000sqft	0.07	3,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - PG&E Rate

Land Use - Using building sizes provided and CalEEMod default acreages

Construction Phase - Added trenching phase

Off-road Equipment - add aerial lifts

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - added trenching equipment

Trips and VMT - added trenching worker trips

Demolition - estimated tons based on measured area ~5k sy with 3" thickness and 2400lbs/yd3 rounded up

Grading - material import

Construction Off-road Equipment Mitigation - Electric cranes and stationary equipment, Tier 3, DPF 3

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	PhaseEndDate	8/9/2022	9/6/2022
tblGrading	MaterialExported	0.00	1,000.00
tblGrading	MaterialImported	0.00	1,000.00
tblLandUse	LandUseSquareFeet	97,600.00	99,629.00
tblLandUse	LandUseSquareFeet	203,000.00	273,500.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblTripsAndVMT	HaulingTripLength	20.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	1.00

tblTripsAndVMT	HaulingTripLength	20.00	1.00
tblTripsAndVMT	VendorTripLength	7.30	1.00
tblTripsAndVMT	VendorTripLength	7.30	1.00
tblTripsAndVMT	VendorTripLength	7.30	1.00
tblTripsAndVMT	VendorTripLength	7.30	1.00
tblTripsAndVMT	VendorTripLength	7.30	1.00
tblTripsAndVMT	VendorTripLength	7.30	1.00
tblTripsAndVMT	VendorTripLength	7.30	1.00
tblTripsAndVMT	WorkerTripLength	10.80	1.00
tblTripsAndVMT	WorkerTripLength	10.80	1.00
tblTripsAndVMT	WorkerTripLength	10.80	1.00
tblTripsAndVMT	WorkerTripLength	10.80	1.00
tblTripsAndVMT	WorkerTripLength	10.80	1.00
tblTripsAndVMT	WorkerTripLength	10.80	1.00
tblTripsAndVMT	WorkerTripLength	10.80	1.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1652	1.6040	1.4301	2.6000e-003	0.1730	0.0731	0.2461	0.0871	0.0682	0.1553	0.0000	227.1160	227.1160	0.0556	0.0000	228.5061
2023	2.0922	1.2000	1.3527	2.3600e-003	0.0116	0.0520	0.0636	3.1600e-003	0.0490	0.0521	0.0000	206.1987	206.1987	0.0447	0.0000	207.3161
Maximum	**2.0922**	**1.6040**	**1.4301**	**2.6000e-003**	**0.1730**	**0.0731**	**0.2461**	**0.0871**	**0.0682**	**0.1553**	**0.0000**	**227.1160**	**227.1160**	**0.0556**	**0.0000**	**228.5061**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0584	1.1231	1.3924	2.6000e-003	0.0831	9.1000e-003	0.0922	0.0216	9.0900e-003	0.0307	0.0000	194.5775	194.5775	0.0471	0.0000	195.7538
2023	2.0102	0.9115	1.1673	2.3600e-003	0.0116	8.0800e-003	0.0197	3.1600e-003	8.0600e-003	0.0112	0.0000	158.4193	158.4193	0.0338	0.0000	159.2648
Maximum	**2.0102**	**1.1231**	**1.3924**	**2.6000e-003**	**0.0831**	**9.1000e-003**	**0.0922**	**0.0216**	**9.0900e-003**	**0.0307**	**0.0000**	**194.5775**	**194.5775**	**0.0471**	**0.0000**	**195.7538**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**8.36**	**27.44**	**8.02**	**0.00**	**48.70**	**86.27**	**63.88**	**72.55**	**85.37**	**79.79**	**0.00**	**18.54**	**18.54**	**19.36**	**0.00**	**18.54**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**6-1-2022**	**8-31-2022**	0.8895	0.5950
2	**9-1-2022**	**11-30-2022**	0.6572	0.4390
3	**12-1-2022**	**2-28-2023**	0.6061	0.4182
4	**3-1-2023**	**5-31-2023**	0.6009	0.4242
5	**6-1-2023**	**8-31-2023**	2.3088	2.2278
		Highest	2.3088	2.2278

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2022	6/28/2022	5	20	
2	Site Preparation	Site Preparation	6/29/2022	7/12/2022	5	10	
3	Grading	Grading	7/13/2022	8/9/2022	5	20	
4	utilities	Trenching	8/10/2022	9/6/2022	5	20	overlaps with grading

5	Building Construction	Building Construction	8/10/2022	6/27/2023	5	230	
6	Paving	Paving	6/28/2023	7/25/2023	5	20	
7	Architectural Coating	Architectural Coating	7/26/2023	8/22/2023	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 2.2

Residential Indoor: 553,838; Residential Outdoor: 184,613; Non-Residential Indoor: 4,500; Non-Residential Outdoor: 1,500; Striped

OffRoad Equipment

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

Architectural Coating	Aerial Lifts	3	6.00	63	0.31
Architectural Coating	Air Compressors	3	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	69.00	1.00	1.00	1.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	1.00	1.00	1.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	250.00	1.00	1.00	1.00	LD_Mix	HDT_Mix	HHDT
utilities	2	5.00	0.00	0.00	1.00	1.00	1.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	189.00	39.00	0.00	1.00	1.00	1.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	1.00	1.00	1.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	6	38.00	0.00	0.00	1.00	1.00	1.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Fugitive Dust					7.4900e-003	0.0000	7.4900e-003	1.1300e-003	0.0000	1.1300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	**0.0264**	**0.2572**	**0.2059**	**3.9000e-004**	**7.4900e-003**	**0.0124**	**0.0199**	**1.1300e-003**	**0.0116**	**0.0127**	**0.0000**	**33.9902**	**33.9902**	**9.5500e-003**	**0.0000**	**34.2289**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.0000e-005	3.2900e-003	5.4000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.4388	0.4388	4.0000e-005	0.0000	0.4399
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	6.0000e-005	8.0000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1136	0.1136	0.0000	0.0000	0.1137
Total	**2.1000e-004**	**3.3500e-003**	**1.3400e-003**	**0.0000**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.5524**	**0.5524**	**4.0000e-005**	**0.0000**	**0.5536**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.3700e-003	0.0000	3.3700e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.2500e-003	0.1831	0.2467	3.9000e-004		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	**9.2500e-003**	**0.1831**	**0.2467**	**3.9000e-004**	**3.3700e-003**	**1.2900e-003**	**4.6600e-003**	**2.6000e-004**	**1.2900e-003**	**1.5500e-003**	**0.0000**	**33.9902**	**33.9902**	**9.5500e-003**	**0.0000**	**34.2289**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.0000e-005	3.2900e-003	5.4000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.4388	0.4388	4.0000e-005	0.0000	0.4399
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	6.0000e-005	8.0000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1136	0.1136	0.0000	0.0000	0.1137
Total	**2.1000e-004**	**3.3500e-003**	**1.3400e-003**	**0.0000**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.5524**	**0.5524**	**4.0000e-005**	**0.0000**	**0.5536**

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1654	0.0985	1.9000e-004		8.0600e-003	8.0600e-003		7.4200e-003	7.4200e-003	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549
Total	**0.0159**	**0.1654**	**0.0985**	**1.9000e-004**	**0.0903**	**8.0600e-003**	**0.0984**	**0.0497**	**7.4200e-003**	**0.0571**	**0.0000**	**16.7197**	**16.7197**	**5.4100e-003**	**0.0000**	**16.8549**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	4.0000e-005	4.8000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0682	0.0682	0.0000	0.0000	0.0682
Total	**8.0000e-005**	**4.0000e-005**	**4.8000e-004**	**0.0000**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0682**	**0.0682**	**0.0000**	**0.0000**	**0.0682**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0407	0.0000	0.0407	0.0112	0.0000	0.0112	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6600e-003	0.0953	0.1148	1.9000e-004		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549
Total	**4.6600e-003**	**0.0953**	**0.1148**	**1.9000e-004**	**0.0407**	**7.1000e-004**	**0.0414**	**0.0112**	**7.1000e-004**	**0.0119**	**0.0000**	**16.7197**	**16.7197**	**5.4100e-003**	**0.0000**	**16.8549**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	4.0000e-005	4.8000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0682	0.0682	0.0000	0.0000	0.0682

Total	**8.0000e-005**	**4.0000e-005**	**4.8000e-004**	**0.0000**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0682**	**0.0682**	**0.0000**	**0.0000**	**0.0682**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0656	0.0000	0.0656	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.2086	0.1527	3.0000e-004		9.4100e-003	9.4100e-003		8.6600e-003	8.6600e-003	0.0000	26.0548	26.0548	8.4300e-003	0.0000	26.2654
Total	**0.0195**	**0.2086**	**0.1527**	**3.0000e-004**	**0.0656**	**9.4100e-003**	**0.0751**	**0.0337**	**8.6600e-003**	**0.0424**	**0.0000**	**26.0548**	**26.0548**	**8.4300e-003**	**0.0000**	**26.2654**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.4000e-004	0.0119	1.9700e-003	2.0000e-005	1.1000e-004	1.0000e-005	1.2000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	1.5898	1.5898	1.5000e-004	0.0000	1.5937
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	6.0000e-005	8.0000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1136	0.1136	0.0000	0.0000	0.1137
Total	**3.8000e-004**	**0.0120**	**2.7700e-003**	**2.0000e-005**	**2.2000e-004**	**1.0000e-005**	**2.3000e-004**	**6.0000e-005**	**1.0000e-005**	**7.0000e-005**	**0.0000**	**1.7034**	**1.7034**	**1.5000e-004**	**0.0000**	**1.7074**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0295	0.0000	0.0295	7.5800e-003	0.0000	7.5800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2600e-003	0.1484	0.1899	3.0000e-004		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003	0.0000	26.0547	26.0547	8.4300e-003	0.0000	26.2654
Total	**7.2600e-003**	**0.1484**	**0.1899**	**3.0000e-004**	**0.0295**	**1.1300e-003**	**0.0307**	**7.5800e-003**	**1.1300e-003**	**8.7100e-003**	**0.0000**	**26.0547**	**26.0547**	**8.4300e-003**	**0.0000**	**26.2654**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.4000e-004	0.0119	1.9700e-003	2.0000e-005	1.1000e-004	1.0000e-005	1.2000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	1.5898	1.5898	1.5000e-004	0.0000	1.5937
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	6.0000e-005	8.0000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1136	0.1136	0.0000	0.0000	0.1137
Total	**3.8000e-004**	**0.0120**	**2.7700e-003**	**2.0000e-005**	**2.2000e-004**	**1.0000e-005**	**2.3000e-004**	**6.0000e-005**	**1.0000e-005**	**7.0000e-005**	**0.0000**	**1.7034**	**1.7034**	**1.5000e-004**	**0.0000**	**1.7074**

3.5 utilities - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Off-Road	2.7500e-003	0.0259	0.0412	6.0000e-005		1.3200e-003	1.3200e-003		1.2100e-003	1.2100e-003	0.0000	5.4516	5.4516	1.7600e-003	0.0000	5.4957
Total	**2.7500e-003**	**0.0259**	**0.0412**	**6.0000e-005**		**1.3200e-003**	**1.3200e-003**		**1.2100e-003**	**1.2100e-003**	**0.0000**	**5.4516**	**5.4516**	**1.7600e-003**	**0.0000**	**5.4957**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	2.0000e-005	2.7000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0379	0.0379	0.0000	0.0000	0.0379
Total	**5.0000e-005**	**2.0000e-005**	**2.7000e-004**	**0.0000**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0379**	**0.0379**	**0.0000**	**0.0000**	**0.0379**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5200e-003	0.0314	0.0470	6.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	5.4516	5.4516	1.7600e-003	0.0000	5.4957
Total	**1.5200e-003**	**0.0314**	**0.0470**	**6.0000e-005**		**2.7000e-004**	**2.7000e-004**		**2.7000e-004**	**2.7000e-004**	**0.0000**	**5.4516**	**5.4516**	**1.7600e-003**	**0.0000**	**5.4957**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	2.0000e-005	2.7000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0379	0.0379	0.0000	0.0000	0.0379
Total	**5.0000e-005**	**2.0000e-005**	**2.7000e-004**	**0.0000**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0379**	**0.0379**	**0.0000**	**0.0000**	**0.0379**

3.6 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0879	0.8042	0.8427	1.3900e-003		0.0417	0.0417		0.0392	0.0392	0.0000	119.3385	119.3385	0.0286	0.0000	120.0533
Total	**0.0879**	**0.8042**	**0.8427**	**1.3900e-003**		**0.0417**	**0.0417**		**0.0392**	**0.0392**	**0.0000**	**119.3385**	**119.3385**	**0.0286**	**0.0000**	**120.0533**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.1400e-003	0.1235	0.0321	1.6000e-004	1.8600e-003	9.0000e-005	1.9500e-003	5.4000e-004	9.0000e-005	6.3000e-004	0.0000	15.8255	15.8255	1.3900e-003	0.0000	15.8603
Worker	9.0400e-003	3.8500e-003	0.0521	8.0000e-005	7.2400e-003	1.0000e-004	7.3300e-003	1.9400e-003	9.0000e-005	2.0200e-003	0.0000	7.3737	7.3737	2.7000e-004	0.0000	7.3804
Total	**0.0122**	**0.1274**	**0.0842**	**2.4000e-004**	**9.1000e-003**	**1.9000e-004**	**9.2800e-003**	**2.4800e-003**	**1.8000e-004**	**2.6500e-003**	**0.0000**	**23.1993**	**23.1993**	**1.6600e-003**	**0.0000**	**23.2407**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0229	0.5221	0.7050	1.3900e-003		5.4900e-003	5.4900e-003		5.4900e-003	5.4900e-003	0.0000	86.8000	86.8000	0.0200	0.0000	87.3011
Total	**0.0229**	**0.5221**	**0.7050**	**1.3900e-003**		**5.4900e-003**	**5.4900e-003**		**5.4900e-003**	**5.4900e-003**	**0.0000**	**86.8000**	**86.8000**	**0.0200**	**0.0000**	**87.3011**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.1400e-003	0.1235	0.0321	1.6000e-004	1.8600e-003	9.0000e-005	1.9500e-003	5.4000e-004	9.0000e-005	6.3000e-004	0.0000	15.8255	15.8255	1.3900e-003	0.0000	15.8603
Worker	9.0400e-003	3.8500e-003	0.0521	8.0000e-005	7.2400e-003	1.0000e-004	7.3300e-003	1.9400e-003	9.0000e-005	2.0200e-003	0.0000	7.3737	7.3737	2.7000e-004	0.0000	7.3804

Total	**0.0122**	**0.1274**	**0.0842**	**2.4000e-004**	**9.1000e-003**	**1.9000e-004**	**9.2800e-003**	**2.4800e-003**	**1.8000e-004**	**2.6500e-003**	**0.0000**	**23.1993**	**23.1993**	**1.6600e-003**	**0.0000**	**23.2407**

3.6 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0999	0.9134	1.0315	1.7100e-003		0.0444	0.0444		0.0418	0.0418	0.0000	147.1960	147.1960	0.0350	0.0000	148.0714
Total	**0.0999**	**0.9134**	**1.0315**	**1.7100e-003**		**0.0444**	**0.0444**		**0.0418**	**0.0418**	**0.0000**	**147.1960**	**147.1960**	**0.0350**	**0.0000**	**148.0714**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0200e-003	0.1292	0.0355	2.0000e-004	2.2900e-003	5.0000e-005	2.3400e-003	6.7000e-004	5.0000e-005	7.2000e-004	0.0000	18.8584	18.8584	1.3600e-003	0.0000	18.8925
Worker	0.0103	4.2200e-003	0.0584	1.0000e-004	8.9200e-003	1.2000e-004	9.0400e-003	2.3900e-003	1.1000e-004	2.4900e-003	0.0000	8.7519	8.7519	2.9000e-004	0.0000	8.7591
Total	**0.0133**	**0.1334**	**0.0938**	**3.0000e-004**	**0.0112**	**1.7000e-004**	**0.0114**	**3.0600e-003**	**1.6000e-004**	**3.2100e-003**	**0.0000**	**27.6103**	**27.6103**	**1.6500e-003**	**0.0000**	**27.6516**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0282	0.6437	0.8693	1.7100e-003		6.7700e-003	6.7700e-003		6.7700e-003	6.7700e-003	0.0000	107.0763	107.0763	0.0246	0.0000	107.6914
Total	**0.0282**	**0.6437**	**0.8693**	**1.7100e-003**		**6.7700e-003**	**6.7700e-003**		**6.7700e-003**	**6.7700e-003**	**0.0000**	**107.0763**	**107.0763**	**0.0246**	**0.0000**	**107.6914**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0200e-003	0.1292	0.0355	2.0000e-004	2.2900e-003	5.0000e-005	2.3400e-003	6.7000e-004	5.0000e-005	7.2000e-004	0.0000	18.8584	18.8584	1.3600e-003	0.0000	18.8925
Worker	0.0103	4.2200e-003	0.0584	1.0000e-004	8.9200e-003	1.2000e-004	9.0400e-003	2.3900e-003	1.1000e-004	2.4900e-003	0.0000	8.7519	8.7519	2.9000e-004	0.0000	8.7591
Total	**0.0133**	**0.1334**	**0.0938**	**3.0000e-004**	**0.0112**	**1.7000e-004**	**0.0114**	**3.0600e-003**	**1.6000e-004**	**3.2100e-003**	**0.0000**	**27.6103**	**27.6103**	**1.6500e-003**	**0.0000**	**27.6516**

3.7 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Off-Road	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0269	20.0269	6.4800e-003	0.0000	20.1888
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0103**	**0.1019**	**0.1458**	**2.3000e-004**		**5.1000e-003**	**5.1000e-003**		**4.6900e-003**	**4.6900e-003**	**0.0000**	**20.0269**	**20.0269**	**6.4800e-003**	**0.0000**	**20.1888**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	5.0000e-005	7.3000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1094	0.1094	0.0000	0.0000	0.1095
Total	**1.3000e-004**	**5.0000e-005**	**7.3000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1094**	**0.1094**	**0.0000**	**0.0000**	**0.1095**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.6100e-003	0.1130	0.1730	2.3000e-004		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	20.0268	20.0268	6.4800e-003	0.0000	20.1888
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.6100e-003**	**0.1130**	**0.1730**	**2.3000e-004**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**20.0268**	**20.0268**	**6.4800e-003**	**0.0000**	**20.1888**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	5.0000e-005	7.3000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1094	0.1094	0.0000	0.0000	0.1095
Total	**1.3000e-004**	**5.0000e-005**	**7.3000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1094**	**0.1094**	**0.0000**	**0.0000**	**0.1095**

3.8 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.9617					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5300e-003	0.0511	0.0789	1.3000e-004		2.3300e-003	2.3300e-003		2.3200e-003	2.3200e-003	0.0000	10.9791	10.9791	1.5300e-003	0.0000	11.0174
Total	**1.9682**	**0.0511**	**0.0789**	**1.3000e-004**		**2.3300e-003**	**2.3300e-003**		**2.3200e-003**	**2.3200e-003**	**0.0000**	**10.9791**	**10.9791**	**1.5300e-003**	**0.0000**	**11.0174**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	1.3000e-004	1.8500e-003	0.0000	2.8000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2771	0.2771	1.0000e-005	0.0000	0.2773
Total	**3.2000e-004**	**1.3000e-004**	**1.8500e-003**	**0.0000**	**2.8000e-004**	**0.0000**	**2.9000e-004**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**0.0000**	**0.2771**	**0.2771**	**1.0000e-005**	**0.0000**	**0.2773**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.9617					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.3000e-004	0.0212	0.0287	1.3000e-004		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.3193	3.3193	1.0700e-003	0.0000	3.3462
Total	**1.9626**	**0.0212**	**0.0287**	**1.3000e-004**		**2.2000e-004**	**2.2000e-004**		**2.2000e-004**	**2.2000e-004**	**0.0000**	**3.3193**	**3.3193**	**1.0700e-003**	**0.0000**	**3.3462**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	1.3000e-004	1.8500e-003	0.0000	2.8000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2771	0.2771	1.0000e-005	0.0000	0.2773

Total	**3.2000e-004**	**1.3000e-004**	**1.8500e-003**	**0.0000**	**2.8000e-004**	**0.0000**	**2.9000e-004**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**0.0000**	**0.2771**	**0.2771**	**1.0000e-005**	**0.0000**	**0.2773**

1001 N Shoreline Block A, TAC - Santa Clara County, Annual

1001 N Shoreline Block A, (TAC Simulanteous)

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	244.00	Space	2.20	99,629.00	0
Apartments Mid Rise	203.00	Dwelling Unit	5.34	273,500.00	581
Strip Mall	3.00	1000sqft	0.07	3,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - PG&E Rate

Land Use - Using building sizes provided and CalEEMod default acreages

Construction Phase - Added trenching phase

Off-road Equipment - add aerial lifts

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - added trenching equipment

Trips and VMT - added trenching worker trips

Demolition - estimated tons based on measured area ~5k sy with 3" thickness and 2400lbs/yd3 rounded up

Grading - material import

Construction Off-road Equipment Mitigation - Electric cranes and stationary equipment, Tier 3, DPF 3

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	PhaseEndDate	8/7/2020	9/4/2020
tblGrading	MaterialExported	0.00	1,000.00
tblGrading	MaterialImported	0.00	1,000.00
tblLandUse	LandUseSquareFeet	97,600.00	99,629.00
tblLandUse	LandUseSquareFeet	203,000.00	273,500.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblTripsAndVMT	HaulingTripLength	20.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	1.00

tblTripsAndVMT	HaulingTripLength	20.00	1.00
tblTripsAndVMT	VendorTripLength	7.30	1.00
tblTripsAndVMT	VendorTripLength	7.30	1.00
tblTripsAndVMT	VendorTripLength	7.30	1.00
tblTripsAndVMT	VendorTripLength	7.30	1.00
tblTripsAndVMT	VendorTripLength	7.30	1.00
tblTripsAndVMT	VendorTripLength	7.30	1.00
tblTripsAndVMT	VendorTripLength	7.30	1.00
tblTripsAndVMT	WorkerTripLength	10.80	1.00
tblTripsAndVMT	WorkerTripLength	10.80	1.00
tblTripsAndVMT	WorkerTripLength	10.80	1.00
tblTripsAndVMT	WorkerTripLength	10.80	1.00
tblTripsAndVMT	WorkerTripLength	10.80	1.00
tblTripsAndVMT	WorkerTripLength	10.80	1.00
tblTripsAndVMT	WorkerTripLength	10.80	1.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.2070	1.9968	1.5110	2.6200e-003	0.1731	0.1006	0.2737	0.0871	0.0939	0.1810	0.0000	229.3609	229.3609	0.0567	0.0000	230.7795
2021	2.1182	1.4485	1.3855	2.3600e-003	0.0115	0.0705	0.0820	3.1400e-003	0.0663	0.0695	0.0000	206.2407	206.2407	0.0455	0.0000	207.3776
Maximum	**2.1182**	**1.9968**	**1.5110**	**2.6200e-003**	**0.1731**	**0.1006**	**0.2737**	**0.0871**	**0.0939**	**0.1810**	**0.0000**	**229.3609**	**229.3609**	**0.0567**	**0.0000**	**230.7795**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0613	1.1427	1.4179	2.6200e-003	0.0832	9.2900e-003	0.0925	0.0216	9.2700e-003	0.0309	0.0000	196.5081	196.5081	0.0478	0.0000	197.7041
2021	2.0130	0.9346	1.1796	2.3600e-003	0.0115	8.1100e-003	0.0196	3.1400e-003	8.0900e-003	0.0112	0.0000	158.7811	158.7811	0.0344	0.0000	159.6404
Maximum	**2.0130**	**1.1427**	**1.4179**	**2.6200e-003**	**0.0832**	**9.2900e-003**	**0.0925**	**0.0216**	**9.2700e-003**	**0.0309**	**0.0000**	**196.5081**	**196.5081**	**0.0478**	**0.0000**	**197.7041**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**10.79**	**39.71**	**10.32**	**0.00**	**48.70**	**89.83**	**68.48**	**72.55**	**89.16**	**83.18**	**0.00**	**18.44**	**18.44**	**19.58**	**0.00**	**18.44**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**6-1-2020**	**8-31-2020**	1.1177	0.5967
2	**9-1-2020**	**11-30-2020**	0.7949	0.4457
3	**12-1-2020**	**2-28-2021**	0.7350	0.4319
4	**3-1-2021**	**5-31-2021**	0.7287	0.4411
5	**6-1-2021**	**8-31-2021**	2.3693	2.2234
		Highest	2.3693	2.2234

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2020	6/26/2020	5	20	
2	Site Preparation	Site Preparation	6/27/2020	7/10/2020	5	10	
3	Grading	Grading	7/11/2020	8/7/2020	5	20	

4	utilities	Trenching	8/8/2020	9/4/2020	5	20	overlaps with grading
5	Building Construction	Building Construction	8/8/2020	6/25/2021	5	230	
6	Paving	Paving	6/26/2021	7/23/2021	5	20	
7	Architectural Coating	Architectural Coating	7/24/2021	8/20/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 2.2

Residential Indoor: 553,838; Residential Outdoor: 184,613; Non-Residential Indoor: 4,500; Non-Residential Outdoor: 1,500; Striped

OffRoad Equipment

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

Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Aerial Lifts	3	6.00	63	0.31
Architectural Coating	Air Compressors	3	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	69.00	1.00	1.00	1.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	1.00	1.00	1.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	250.00	1.00	1.00	1.00	LD_Mix	HDT_Mix	HHDT
utilities	2	5.00	0.00	0.00	1.00	1.00	1.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	189.00	39.00	0.00	1.00	1.00	1.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	1.00	1.00	1.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	6	38.00	0.00	0.00	1.00	1.00	1.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Fugitive Dust					7.4900e-003	0.0000	7.4900e-003	1.1300e-003	0.0000	1.1300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2386
Total	**0.0331**	**0.3320**	**0.2175**	**3.9000e-004**	**7.4900e-003**	**0.0166**	**0.0241**	**1.1300e-003**	**0.0154**	**0.0166**	**0.0000**	**33.9986**	**33.9986**	**9.6000e-003**	**0.0000**	**34.2386**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.0000e-005	3.5600e-003	5.8000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.4481	0.4481	5.0000e-005	0.0000	0.4493
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	8.0000e-005	9.8000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1220	0.1220	1.0000e-005	0.0000	0.1221
Total	**2.4000e-004**	**3.6400e-003**	**1.5600e-003**	**0.0000**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.5701**	**0.5701**	**6.0000e-005**	**0.0000**	**0.5714**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.3700e-003	0.0000	3.3700e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.2500e-003	0.1831	0.2467	3.9000e-004		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2385

Total	**9.2500e-003**	**0.1831**	**0.2467**	**3.9000e-004**	**3.3700e-003**	**1.2900e-003**	**4.6600e-003**	**2.6000e-004**	**1.2900e-003**	**1.5500e-003**	**0.0000**	**33.9986**	**33.9986**	**9.6000e-003**	**0.0000**	**34.2385**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.0000e-005	3.5600e-003	5.8000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.4481	0.4481	5.0000e-005	0.0000	0.4493
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	8.0000e-005	9.8000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1220	0.1220	1.0000e-005	0.0000	0.1221
Total	**2.4000e-004**	**3.6400e-003**	**1.5600e-003**	**0.0000**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.5701**	**0.5701**	**6.0000e-005**	**0.0000**	**0.5714**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	**0.0204**	**0.2121**	**0.1076**	**1.9000e-004**	**0.0903**	**0.0110**	**0.1013**	**0.0497**	**0.0101**	**0.0598**	**0.0000**	**16.7153**	**16.7153**	**5.4100e-003**	**0.0000**	**16.8505**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	5.0000e-005	5.9000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0732	0.0732	0.0000	0.0000	0.0733
Total	**1.0000e-004**	**5.0000e-005**	**5.9000e-004**	**0.0000**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0732**	**0.0732**	**0.0000**	**0.0000**	**0.0733**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0407	0.0000	0.0407	0.0112	0.0000	0.0112	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6600e-003	0.0953	0.1148	1.9000e-004		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	**4.6600e-003**	**0.0953**	**0.1148**	**1.9000e-004**	**0.0407**	**7.1000e-004**	**0.0414**	**0.0112**	**7.1000e-004**	**0.0119**	**0.0000**	**16.7153**	**16.7153**	**5.4100e-003**	**0.0000**	**16.8505**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	5.0000e-005	5.9000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0732	0.0732	0.0000	0.0000	0.0733
Total	**1.0000e-004**	**5.0000e-005**	**5.9000e-004**	**0.0000**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0732**	**0.0732**	**0.0000**	**0.0000**	**0.0733**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0656	0.0000	0.0656	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0243	0.2639	0.1605	3.0000e-004		0.0127	0.0127		0.0117	0.0117	0.0000	26.0588	26.0588	8.4300e-003	0.0000	26.2694
Total	**0.0243**	**0.2639**	**0.1605**	**3.0000e-004**	**0.0656**	**0.0127**	**0.0784**	**0.0337**	**0.0117**	**0.0454**	**0.0000**	**26.0588**	**26.0588**	**8.4300e-003**	**0.0000**	**26.2694**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.7000e-004	0.0129	2.1000e-003	2.0000e-005	1.1000e-004	1.0000e-005	1.2000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	1.6235	1.6235	1.7000e-004	0.0000	1.6278
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	8.0000e-005	9.8000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1220	0.1220	1.0000e-005	0.0000	0.1221
Total	**4.4000e-004**	**0.0130**	**3.0800e-003**	**2.0000e-005**	**2.2000e-004**	**1.0000e-005**	**2.3000e-004**	**6.0000e-005**	**1.0000e-005**	**7.0000e-005**	**0.0000**	**1.7455**	**1.7455**	**1.8000e-004**	**0.0000**	**1.7499**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0295	0.0000	0.0295	7.5800e-003	0.0000	7.5800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2600e-003	0.1484	0.1899	3.0000e-004		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003	0.0000	26.0587	26.0587	8.4300e-003	0.0000	26.2694
Total	**7.2600e-003**	**0.1484**	**0.1899**	**3.0000e-004**	**0.0295**	**1.1300e-003**	**0.0307**	**7.5800e-003**	**1.1300e-003**	**8.7100e-003**	**0.0000**	**26.0587**	**26.0587**	**8.4300e-003**	**0.0000**	**26.2694**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.7000e-004	0.0129	2.1000e-003	2.0000e-005	1.1000e-004	1.0000e-005	1.2000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	1.6235	1.6235	1.7000e-004	0.0000	1.6278
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	8.0000e-005	9.8000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1220	0.1220	1.0000e-005	0.0000	0.1221
Total	**4.4000e-004**	**0.0130**	**3.0800e-003**	**2.0000e-005**	**2.2000e-004**	**1.0000e-005**	**2.3000e-004**	**6.0000e-005**	**1.0000e-005**	**7.0000e-005**	**0.0000**	**1.7455**	**1.7455**	**1.8000e-004**	**0.0000**	**1.7499**

3.5 utilities - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.4100e-003	0.0339	0.0416	6.0000e-005		1.8700e-003	1.8700e-003		1.7200e-003	1.7200e-003	0.0000	5.4491	5.4491	1.7600e-003	0.0000	5.4932
Total	**3.4100e-003**	**0.0339**	**0.0416**	**6.0000e-005**		**1.8700e-003**	**1.8700e-003**		**1.7200e-003**	**1.7200e-003**	**0.0000**	**5.4491**	**5.4491**	**1.7600e-003**	**0.0000**	**5.4932**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	3.0000e-005	3.3000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0407	0.0407	0.0000	0.0000	0.0407
Total	**6.0000e-005**	**3.0000e-005**	**3.3000e-004**	**0.0000**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0407**	**0.0407**	**0.0000**	**0.0000**	**0.0407**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5200e-003	0.0314	0.0470	6.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	5.4491	5.4491	1.7600e-003	0.0000	5.4932

Total	**1.5200e-003**	**0.0314**	**0.0470**	**6.0000e-005**		**2.7000e-004**	**2.7000e-004**		**2.7000e-004**	**2.7000e-004**	**0.0000**	**5.4491**	**5.4491**	**1.7600e-003**	**0.0000**	**5.4932**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	3.0000e-005	3.3000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0407	0.0407	0.0000	0.0000	0.0407
Total	**6.0000e-005**	**3.0000e-005**	**3.3000e-004**	**0.0000**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0407**	**0.0407**	**0.0000**	**0.0000**	**0.0407**

3.6 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1102	0.9977	0.8761	1.4000e-003		0.0581	0.0581		0.0546	0.0546	0.0000	120.4372	120.4372	0.0294	0.0000	121.1718
Total	**0.1102**	**0.9977**	**0.8761**	**1.4000e-003**		**0.0581**	**0.0581**		**0.0546**	**0.0546**	**0.0000**	**120.4372**	**120.4372**	**0.0294**	**0.0000**	**121.1718**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.8300e-003	0.1356	0.0377	1.7000e-004	1.8700e-003	2.2000e-004	2.0900e-003	5.5000e-004	2.1000e-004	7.6000e-004	0.0000	16.2803	16.2803	1.5900e-003	0.0000	16.3200
Worker	0.0109	4.9800e-003	0.0644	9.0000e-005	7.3100e-003	1.0000e-004	7.4100e-003	1.9500e-003	9.0000e-005	2.0500e-003	0.0000	7.9922	7.9922	3.4000e-004	0.0000	8.0008
Total	**0.0147**	**0.1406**	**0.1021**	**2.6000e-004**	**9.1800e-003**	**3.2000e-004**	**9.5000e-003**	**2.5000e-003**	**3.0000e-004**	**2.8100e-003**	**0.0000**	**24.2725**	**24.2725**	**1.9300e-003**	**0.0000**	**24.3208**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0231	0.5271	0.7118	1.4000e-003		5.5400e-003	5.5400e-003		5.5400e-003	5.5400e-003	0.0000	87.5845	87.5845	0.0205	0.0000	88.0964
Total	**0.0231**	**0.5271**	**0.7118**	**1.4000e-003**		**5.5400e-003**	**5.5400e-003**		**5.5400e-003**	**5.5400e-003**	**0.0000**	**87.5845**	**87.5845**	**0.0205**	**0.0000**	**88.0964**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.8300e-003	0.1356	0.0377	1.7000e-004	1.8700e-003	2.2000e-004	2.0900e-003	5.5000e-004	2.1000e-004	7.6000e-004	0.0000	16.2803	16.2803	1.5900e-003	0.0000	16.3200
Worker	0.0109	4.9800e-003	0.0644	9.0000e-005	7.3100e-003	1.0000e-004	7.4100e-003	1.9500e-003	9.0000e-005	2.0500e-003	0.0000	7.9922	7.9922	3.4000e-004	0.0000	8.0008
Total	**0.0147**	**0.1406**	**0.1021**	**2.6000e-004**	**9.1800e-003**	**3.2000e-004**	**9.5000e-003**	**2.5000e-003**	**3.0000e-004**	**2.8100e-003**	**0.0000**	**24.2725**	**24.2725**	**1.9300e-003**	**0.0000**	**24.3208**

3.6 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1198	1.0982	1.0442	1.7000e-003		0.0604	0.0604		0.0568	0.0568	0.0000	145.9315	145.9315	0.0352	0.0000	146.8117
Total	**0.1198**	**1.0982**	**1.0442**	**1.7000e-003**		**0.0604**	**0.0604**		**0.0568**	**0.0568**	**0.0000**	**145.9315**	**145.9315**	**0.0352**	**0.0000**	**146.8117**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1500e-003	0.1562	0.0421	2.0000e-004	2.2700e-003	1.3000e-004	2.4000e-003	6.6000e-004	1.3000e-004	7.9000e-004	0.0000	19.5362	19.5362	1.8100e-003	0.0000	19.5815
Worker	0.0121	5.3200e-003	0.0704	1.0000e-004	8.8500e-003	1.2000e-004	8.9700e-003	2.3700e-003	1.1000e-004	2.4800e-003	0.0000	9.3541	9.3541	3.7000e-004	0.0000	9.3633
Total	**0.0162**	**0.1615**	**0.1124**	**3.0000e-004**	**0.0111**	**2.5000e-004**	**0.0114**	**3.0300e-003**	**2.4000e-004**	**3.2700e-003**	**0.0000**	**28.8903**	**28.8903**	**2.1800e-003**	**0.0000**	**28.9448**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0280	0.6387	0.8624	1.7000e-003		6.7100e-003	6.7100e-003		6.7100e-003	6.7100e-003	0.0000	106.1317	106.1317	0.0246	0.0000	106.7474
Total	**0.0280**	**0.6387**	**0.8624**	**1.7000e-003**		**6.7100e-003**	**6.7100e-003**		**6.7100e-003**	**6.7100e-003**	**0.0000**	**106.1317**	**106.1317**	**0.0246**	**0.0000**	**106.7474**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1500e-003	0.1562	0.0421	2.0000e-004	2.2700e-003	1.3000e-004	2.4000e-003	6.6000e-004	1.3000e-004	7.9000e-004	0.0000	19.5362	19.5362	1.8100e-003	0.0000	19.5815
Worker	0.0121	5.3200e-003	0.0704	1.0000e-004	8.8500e-003	1.2000e-004	8.9700e-003	2.3700e-003	1.1000e-004	2.4800e-003	0.0000	9.3541	9.3541	3.7000e-004	0.0000	9.3633
Total	**0.0162**	**0.1615**	**0.1124**	**3.0000e-004**	**0.0111**	**2.5000e-004**	**0.0114**	**3.0300e-003**	**2.4000e-004**	**3.2700e-003**	**0.0000**	**28.8903**	**28.8903**	**2.1800e-003**	**0.0000**	**28.9448**

3.7 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0126**	**0.1292**	**0.1465**	**2.3000e-004**		**6.7800e-003**	**6.7800e-003**		**6.2400e-003**	**6.2400e-003**	**0.0000**	**20.0235**	**20.0235**	**6.4800e-003**	**0.0000**	**20.1854**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	7.0000e-005	8.9000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1178	0.1178	0.0000	0.0000	0.1180
Total	**1.5000e-004**	**7.0000e-005**	**8.9000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1178**	**0.1178**	**0.0000**	**0.0000**	**0.1180**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.6100e-003	0.1130	0.1730	2.3000e-004		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854

Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.6100e-003**	**0.1130**	**0.1730**	**2.3000e-004**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**20.0235**	**20.0235**	**6.4800e-003**	**0.0000**	**20.1854**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	7.0000e-005	8.9000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1178	0.1178	0.0000	0.0000	0.1180
Total	**1.5000e-004**	**7.0000e-005**	**8.9000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1178**	**0.1178**	**0.0000**	**0.0000**	**0.1180**

3.8 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.9617					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.4100e-003	0.0593	0.0791	1.3000e-004		3.0800e-003	3.0800e-003		3.0600e-003	3.0600e-003	0.0000	10.9791	10.9791	1.6000e-003	0.0000	11.0191
Total	**1.9691**	**0.0593**	**0.0791**	**1.3000e-004**		**3.0800e-003**	**3.0800e-003**		**3.0600e-003**	**3.0600e-003**	**0.0000**	**10.9791**	**10.9791**	**1.6000e-003**	**0.0000**	**11.0191**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	1.7000e-004	2.2500e-003	0.0000	2.8000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2985	0.2985	1.0000e-005	0.0000	0.2988
Total	**3.8000e-004**	**1.7000e-004**	**2.2500e-003**	**0.0000**	**2.8000e-004**	**0.0000**	**2.9000e-004**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**0.0000**	**0.2985**	**0.2985**	**1.0000e-005**	**0.0000**	**0.2988**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.9617					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.3000e-004	0.0212	0.0287	1.3000e-004		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.3193	3.3193	1.0700e-003	0.0000	3.3462
Total	**1.9626**	**0.0212**	**0.0287**	**1.3000e-004**		**2.2000e-004**	**2.2000e-004**		**2.2000e-004**	**2.2000e-004**	**0.0000**	**3.3193**	**3.3193**	**1.0700e-003**	**0.0000**	**3.3462**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	1.7000e-004	2.2500e-003	0.0000	2.8000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2985	0.2985	1.0000e-005	0.0000	0.2988
Total	**3.8000e-004**	**1.7000e-004**	**2.2500e-003**	**0.0000**	**2.8000e-004**	**0.0000**	**2.9000e-004**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**0.0000**	**0.2985**	**0.2985**	**1.0000e-005**	**0.0000**	**0.2988**

Attachment 3: Health Impact Evaluation Methodology

A health risk assessment (HRA) for exposure to Toxic Air Contaminates (TACs) requires the application of a risk characterization model to the results from the air dispersion model to estimate potential health risk at each sensitive receptor location. The State of California Office of Environmental Health Hazard Assessment (OEHHA) and California Air Resources Board (CARB) develop recommended methods for conducting health risk assessments. The most recent OEHHA risk assessment guidelines were published in February of 2015.[3] These guidelines incorporate substantial changes designed to provide for enhanced protection of children, as required by State law, compared to previous published risk assessment guidelines. CARB has provided additional guidance on implementing OEHHA's recommended methods.[4] This HRA used the 2015 OEHHA risk assessment guidelines and CARB guidance. The BAAQMD has adopted recommended procedures for applying the newest OEHHA guidelines as part of Regulation 2, Rule 5: New Source Review of Toxic Air Contaminants.[5] Exposure parameters from the OEHHA guidelines and the recent BAAQMD HRA Guidelines were used in this evaluation.

Cancer Risk

Potential increased cancer risk from inhalation of TACs are calculated based on the TAC concentration over the period of exposure, inhalation dose, the TAC cancer potency factor, and an age sensitivity factor to reflect the greater sensitivity of infants and children to cancer causing TACs. The inhalation dose depends on a person's breathing rate, exposure time and frequency and duration of exposure. These parameters vary depending on the age, or age range, of the persons being exposed and whether the exposure is considered to occur at a residential location or other sensitive receptor location.

The current OEHHA guidance recommends that cancer risk be calculated by age groups to account for different breathing rates and sensitivity to TACs. Specifically, they recommend evaluating risks for the third trimester of pregnancy to age zero, ages zero to less than two (infant exposure), ages two to less than 16 (child exposure), and ages 16 to 70 (adult exposure). Age sensitivity factors (ASFs) associated with the different types of exposure are an ASF of 10 for the third trimester and infant exposures, an ASF of 3 for a child exposure, and an ASF of 1 for an adult exposure. Also associated with each exposure type are different breathing rates, expressed as liters per kilogram of body weight per day (L/kg-day). As recommended by the BAAQMD for residential exposures, 95th percentile breathing rates are used for the third trimester and infant exposures, and 80th percentile breathing rates for child and adult exposures. For children at schools and daycare facilities, BAAQMD recommends using the 95th percentile breathing rates. Additionally, CARB and the BAAQMD recommend the use of a residential exposure duration of 30 years for sources with long-term emissions (e.g., roadways). For workers, assumed to be adults,

3 OEHHA, 2015. *Air Toxics Hot Spots Program Risk Assessment Guidelines, The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments*. Office of Environmental Health Hazard Assessment. February.
4 CARB, 2015. *Risk Management Guidance for Stationary Sources of Air Toxics*. July 23.
5 BAAQMD, 2016. *BAAQMD Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines*. December 2016.

a 25-year exposure period is recommended by the BAAQMD.

Under previous OEHHA and BAAQMD HRA guidance, residential receptors are assumed to be at their home 24 hours a day, or 100 percent of the time. In the 2015 Risk Assessment Guidance, OEHHA includes adjustments to exposure duration to account for the fraction of time at home (FAH), which can be less than 100 percent of the time, based on updated population and activity statistics. The FAH factors are age-specific and are: 0.85 for third trimester of pregnancy to less than 2 years old, 0.72 for ages 2 to less than 16 years, and 0.73 for ages 16 to 70 years. Use of the FAH factors is allowed by the BAAQMD if there are no schools in the project vicinity that would have a cancer risk of one in a million or greater assuming 100 percent exposure (FAH = 1.0).

Functionally, cancer risk is calculated using the following parameters and formulas:

Cancer Risk (per million) = $CPF \times Inhalation\ Dose \times ASF \times ED/AT \times FAH \times 10^6$

Where:

CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = $C_{air} \times DBR \times A \times (EF/365) \times 10^{-6}$

Where:

C_{air} = concentration in air $(\mu g/m^3)$
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

The health risk parameters used in this evaluation are summarized as follows:

Parameter	*Exposure Type* →	Infant		Child		Adult
	Age Range →	3rd Trimester	0<2	2 < 9	2 < 16	16 - 30
DPM Cancer Potency Factor $(mg/kg\text{-}day)^{-1}$		1.10E+00	1.10E+00	1.10E+00	1.10E+00	1.10E+00
Daily Breathing Rate (L/kg-day) 80th Percentile Rate		273	758	631	572	261
Daily Breathing Rate (L/kg-day) 95th Percentile Rate		361	1,090	861	745	335
Inhalation Absorption Factor		1	1	1	1	1
Averaging Time (years)		70	70	70	70	70
Exposure Duration (years)		0.25	2	14	14	14
Exposure Frequency (days/year)		350	350	350	350	350
Age Sensitivity Factor		10	10	3	3	1
Fraction of Time at Home		0.85-1.0	0.85-1.0	0.72-1.0	0.72-1.0	0.73

Non-Cancer Hazards

Potential non-cancer health hazards from TAC exposure are expressed in terms of a hazard index (HI), which is the ratio of the TAC concentration to a reference exposure level (REL). OEHHA has defined acceptable concentration levels for contaminants that pose non-cancer health hazards. TAC concentrations below the REL are not expected to cause adverse health impacts, even for sensitive individuals. The total HI is calculated as the sum of the HIs for each TAC evaluated and the total HI is compared to the BAAQMD significance thresholds to determine whether a significant non-cancer health impact from a project would occur.

Typically, for residential projects located near roadways with substantial TAC emissions, the primary TAC of concern with non-cancer health effects is diesel particulate matter (DPM). For DPM, the chronic inhalation REL is 5 micrograms per cubic meter ($\mu g/m^3$).

Annual $PM_{2.5}$ Concentrations

While not a TAC, fine particulate matter ($PM_{2.5}$) has been identified by the BAAQMD as a pollutant with potential non-cancer health effects that should be included when evaluating potential community health impacts under the California Environmental Quality Act (CEQA). The thresholds of significance for $PM_{2.5}$ (project level and cumulative) are in terms of an increase in the annual average concentration. When considering $PM_{2.5}$ impacts, the contribution from all sources of $PM_{2.5}$ emissions should be included. For projects with potential impacts from nearby local roadways, the $PM_{2.5}$ impacts should include those from vehicle exhaust emissions, $PM_{2.5}$ generated from vehicle tire and brake wear, and fugitive emissions from re-suspended dust on the roads.

Attachment 4: Summary – Construction Health Risk

Sequenced Construction Emissions

1001 North Shoreline Boulevard, Mountain View, CA

DPM Construction Emissions and Modeling Emission Rates - Unmitigated

Construction Year	Activity	DPM (ton/year)	Area Source	DPM Emissions (lb/yr)	DPM Emissions (lb/hr)	DPM Emissions (g/s)	Modeled Area (m^2)	DPM Emission Rate ($g/s/m^2$)
2020	Building B	0.1006	CON_DPM_B	201.2	0.05011	6.31E-03	6,171	1.02E-06
2021	Building B	0.0705	CON_DPM_B	141.0	0.03512	4.42E-03	6,172	7.17E-07
2022	Building A	0.0731	CON_DPM_A	146.2	0.03641	4.59E-03	6,968	6.58E-07
2023	Building A	0.0520	CON_DPM_A	104.0	0.02590	3.26E-03	6,969	4.68E-07
Total		***0.2962***		***592***	***0.1475***	***0.0186***		
		hr/day =	11	(7am - 6pm)				
		days/yr =	365					
		hours/year =	4015					

PM2.5 Fugitive Dust Construction Emissions for Modeling - Unmitigated

Construction Year	Activity	Area Source	PM2.5 Emissions (ton/year)	PM2.5 Emissions (lb/yr)	PM2.5 Emissions (lb/hr)	PM2.5 Emissions (g/s)	Modeled Area (m^2)	PM2.5 Emission Rate $g/s/m^2$
2020	Building B	CON_FUG_B	0.0882	176.4	0.04394	5.54E-03	6,171	8.97E-07
2021	Building B	CON_FUG_B	0.0024	4.8	0.00120	1.51E-04	6,172	2.44E-08
2022	Building A	CON_FUG_A	0.0871	174.2	0.04339	5.47E-03	6,968	7.85E-07
2023	Building A	CON_FUG_A	0.0032	6.3	0.00157	1.98E-04	6,969	2.85E-08
Total			***0.1809***	***361.7***	***0.0901***	***0.0114***		
		hr/day =	11	(7am - 6pm)				
		days/yr =	365					
		hours/year =	4015					

DPM Construction Emissions and Modeling Emission Rates - With Mitigation

Construction Year	Activity	DPM (ton/year)	Area Source	DPM Emissions (lb/yr)	DPM Emissions (lb/hr)	DPM Emissions (g/s)	Modeled Area (m^2)	DPM Emission Rate ($g/s/m^2$)
2020	Building B	0.0093	CON_DPM_B	18.5	0.00461	5.81E-04	6,171	9.42E-08
2021	Building B	0.0081	CON_DPM_B	16.1	0.00401	5.06E-04	6,172	8.20E-08
2022	Building A	0.0091	CON_DPM_A	18.2	0.00453	5.71E-04	6,968	8.20E-08
2023	Building A	0.0081	CON_DPM_A	16.2	0.00402	5.07E-04	6,969	7.28E-08
Total		***0.0345***		***53***	***0.0132***	***0.0017***		
		hr/day =	11	(7am - 6pm)				
		days/yr =	365					
		hours/year =	4015					

PM2.5 Fugitive Dust Construction Emissions for Modeling - With Mitigation

Construction Year	Activity	Area Source	PM2.5 Emissions (ton/year)	PM2.5 Emissions (lb/yr)	PM2.5 Emissions (lb/hr)	PM2.5 Emissions (g/s)	Modeled Area (m^2)	PM2.5 Emission Rate $g/s/m^2$
2020	Building B	CON_FUG_B	0.0215	43.0	0.01071	1.35E-03	6,171	2.19E-07
2021	Building B	CON_FUG_B	0.0024	4.8	0.00120	1.51E-04	6,172	2.44E-08
2022	Building A	CON_FUG_A	0.0216	43.2	0.01076	1.36E-03	6,968	1.95E-07
2023	Building A	CON_FUG_A	0.0032	6.3	0.00157	1.98E-04	6,969	2.85E-08
Total			***0.0487***	***91.0***	***0.0227***	***0.0029***		
		hr/day =	11	(7am - 6pm)				
		days/yr =	365					
		hours/year =	4015					

MEI Results for Sequenced Construction

1001 North Shoreline Boulevard, Mountain View, CA
Construction Health Impacts Summary at Alternative MEI

Maximum Impacts at Construction MEI Location - Unmitigated

Emissions Year	Maximum Concentrations: Exhaust PM10/DPM ($\mu g/m^3$)	Maximum Concentrations: Fugitive PM2.5 ($\mu g/m^3$)	Cancer Risk (per million): Child	Cancer Risk (per million): Adult	Hazard Index (-)	Maximum Annual PM2.5 Concentration ($\mu g/m^3$)
2020	0.1516	0.1472	27.04	0.44	0.030	0.30
2021	0.1065	0.0040	17.50	0.31	0.021	0.11
2022	0.0260	0.0322	0.67	0.07	0.005	0.06
	0.0185	0.0012	0.48	0.05	0.004	0.02
Total	-	-	**45.7**	**0.9**	-	-
Maximum	0.1516	0.1472	**-**	**-**	**0.030**	**0.30**

Maximum Impacts at Construction MEI Location - With Mitigation

Emissions Year	Maximum Concentrations: Exhaust PM10/DPM ($\mu g/m^3$)	Maximum Concentrations: Fugitive PM2.5 ($\mu g/m^3$)	Cancer Risk (per million): Child	Cancer Risk (per million): Adult	Hazard Index (-)	Maximum Annual PM2.5 Concentration ($\mu g/m^3$)
2020	0.0140	0.0359	2.50	0.04	0.003	0.05
2021	0.0122	0.0040	2.00	0.03	0.002	0.02
2022	0.0032	0.0080	0.08	0.01	0.001	0.01
Total	-	-	**4.6**	**0.1**	-	-
Maximum	0.0140	0.0359	**-**	**-**	**0.003**	**0.05**

1001 North Shoreline Boulevard, Mountain View, CA - Construction Impacts - Without Mitigation
Maximum DPM Cancer Risk and PM2.5 Calculations From Construction
Impacts at Alternative Off-Site MEI Location - 1.5 meter receptor height

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air ($\mu g/m^3$)
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Values

	Infant/Child				Adult
Age -->	**3rd Trimester**	**0 - 2**	**2 - 9**	**2 - 16**	**16 - 30**
Parameter					
ASF =	10	10	3	3	1
CPF =	1.10E+00	1.10E+00	1.10E+00	1.10E+00	1.10E+00
DBR* =	361	1090	631	572	261
A =	1	1	1	1	1
EF =	350	350	350	350	350
AT =	70	70	70	70	70
FAH =	1.00	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

			Infant/Child - Exposure Information				Adult - Exposure Information				Maximum	
			DPM Conc (ug/m3)		Age	Infant/Child	Modeled DPM Conc (ug/m3)		Age	Adult		
Exposure Year	**Exposure Duration (years)**	**Age**	**Year**	**Annual**	**Sensitivity Factor**	**Cancer Risk (per million)**	**Year**	**Annual**	**Sensitivity Factor**	**Cancer Risk (per million)**	**Fugitive PM2.5**	**Total PM2.5**
0	0.25	-0.25 - 0*	2020	0.1516	10	2.15	2020	0.1516	-	-		
1	1	0 - 1	2020	0.1516	10	24.89	2020	0.1516	1	0.44	0.1472	0.2988
2	1	1 - 2	2021	0.1065	10	17.50	2021	0.1065	1	0.31	0.0040	0.1105
3	1	2 - 3	2022	0.0260	3	0.67	2022	0.0260	1	0.07	0.0322	0.0582
4	1	3 - 4	2023	0.0185	3	0.48	2023	0.0185	1	0.05	0.0012	0.0196
5	1	4 - 5	2024		3	0.00	2024		1	0.00		
6	1	5 - 6	2025		3	0.00	2025		1	0.00		
7	1	6 - 7	2026		3	0.00	2026		1	0.00		
8	1	7 - 8	2027		3	0.00	2027		1	0.00		
9	1	8 - 9	2028		3	0.00	2028		1	0.00		
10	1	9 - 10	2029		3	0.00	2029		1	0.00		
11	1	10 - 11	2030		3	0.00	2030		1	0.00		
12	1	11 - 12	2031		3	0.00	2031		1	0.00		
13	1	12 - 13	2032		3	0.00	2032		1	0.00		
14	1	13 - 14	2033		3	0.00	2033		1	0.00		
15	1	14 - 15	2034		3	0.00	2034		1	0.00		
16	1	15 - 16	2035		3	0.00	2035		1	0.00		
17	1	16-17	2036		1	0.00	2036		1	0.00		
18	1	17-18	2037		1	0.00	2037		1	0.00		
19	1	18-19	2038		1	0.00	2038		1	0.00		
20	1	19-20	2039		1	0.00	2039		1	0.00		
21	1	20-21	2040		1	0.00	2040		1	0.00		
22	1	21-22	2041		1	0.00	2041		1	0.00		
23	1	22-23	2042		1	0.00	2042		1	0.00		
24	1	23-24	2043		1	0.00	2043		1	0.00		
25	1	24-25	2044		1	0.00	2044		1	0.00		
26	1	25-26	2045		1	0.00	2045		1	0.00		
27	1	26-27	2046		1	0.00	2046		1	0.00		
28	1	27-28	2047		1	0.00	2047		1	0.00		
29	1	28-29	2048		1	0.00	2048		1	0.00		
30	1	29-30	2049		1	0.00	2049		1	0.00		
Total Increased Cancer Risk						**45.7**				**0.87**		

* Third trimester of pregnancy

1001 North Shoreline Boulevard, Mountain View, CA - Construction Impacts - With Mitigation
Maximum DPM Cancer Risk and PM2.5 Calculations From Construction
Impacts at Off-Site Alternative MEI Location - 1.5 meter receptor height

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air $(\mu g/m^3)$
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Values

	Infant/Child				Adult
Age -->	**3rd Trimester**	**0 - 2**	**2 - 9**	**2 - 16**	**16 - 30**
Parameter					
ASF =	10	10	3	3	1
CPF =	1.10E+00	1.10E+00	1.10E+00	1.10E+00	1.10E+00
DBR* =	361	1090	631	572	261
A =	1	1	1	1	1
EF =	350	350	350	350	350
AT =	70	70	70	70	70
FAH =	1.00	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

			Infant/Child - Exposure Information			Infant/Child	Adult - Exposure Information			Adult	Maximum	
					Age	Cancer	Modeled		Age	Cancer		
Exposure	Exposure Duration		DPM Conc (ug/m3)		Sensitivity	Risk	DPM Conc (ug/m3)		Sensitivity	Risk	Fugitive	Total
Year	(years)	Age	Year	Annual	Factor	(per million)	Year	Annual	Factor	(per million)	PM2.5	PM2.5
0	0.25	-0.25 - 0*	2020	0.0140	10	0.20	2020	0.0140	-	-		
1	1	0 - 1	2020	0.0140	10	2.30	2020	0.0140	1	0.04	0.0359	0.0499
2	1	1 - 2	2021	0.0122	10	2.00	2021	0.0122	1	0.03	0.0040	0.0162
3	1	2 - 3	2022	0.0032	3	0.08	2022	0.0032	1	0.01	0.0080	0.0112
4	1	3 - 4	2023	0.0029	3	0.07	2023	0.0029	1	0.01	0.0012	0.0040
5	1	4 - 5	2024		3	0.00	2024		1	0.00		
6	1	5 - 6	2025		3	0.00	2025		1	0.00		
7	1	6 - 7	2026		3	0.00	2026		1	0.00		
8	1	7 - 8	2027		3	0.00	2027		1	0.00		
9	1	8 - 9	2028		3	0.00	2028		1	0.00		
10	1	9 - 10	2029		3	0.00	2029		1	0.00		
11	1	10 - 11	2030		3	0.00	2030		1	0.00		
12	1	11 - 12	2031		3	0.00	2031		1	0.00		
13	1	12 - 13	2032		3	0.00	2032		1	0.00		
14	1	13 - 14	2033		3	0.00	2033		1	0.00		
15	1	14 - 15	2034		3	0.00	2034		1	0.00		
16	1	15 - 16	2035		3	0.00	2035		1	0.00		
17	1	16-17	2036		1	0.00	2036		1	0.00		
18	1	17-18	2037		1	0.00	2037		1	0.00		
19	1	18-19	2038		1	0.00	2038		1	0.00		
20	1	19-20	2039		1	0.00	2039		1	0.00		
21	1	20-21	2040		1	0.00	2040		1	0.00		
22	1	21-22	2041		1	0.00	2041		1	0.00		
23	1	22-23	2042		1	0.00	2042		1	0.00		
24	1	23-24	2043		1	0.00	2043		1	0.00		
25	1	24-25	2044		1	0.00	2044		1	0.00		
26	1	25-26	2045		1	0.00	2045		1	0.00		
27	1	26-27	2046		1	0.00	2046		1	0.00		
28	1	27-28	2047		1	0.00	2047		1	0.00		
29	1	28-29	2048		1	0.00	2048		1	0.00		
30	1	29-30	2049		1	0.00	2049		1	0.00		
Total Increased Cancer Risk						**4.7**				**0.09**		

* Third trimester of pregnancy

Simultaneous Construction Emissions

1001 North Shoreline Boulevard, Mountain View, CA

DPM Construction Emissions and Modeling Emission Rates - Unmitigated

Construction Year	Activity	DPM (ton/year)	Area Source	DPM Emissions (lb/yr)	DPM Emissions (lb/hr)	DPM Emissions (g/s)	Modeled Area (m^2)	DPM Emission Rate ($g/s/m^2$)
2020-2021	Building A	0.1711	CON_DPM_A	342.2	0.08523	1.07E-02	6,171	1.74E-06
2020-2021	Building B	0.1711	CON_DPM_B	342.2	0.08523	1.07E-02	6,968	1.54E-06
Total		***0.3422***		***684***	***0.1705***	***0.0215***		
		hr/day =	11	(7am - 6pm)				
		days/yr =	365					
		hours/year =	4015					

PM2.5 Fugitive Dust Construction Emissions for Modeling - Unmitigated

Construction Year	Activity	Area Source	PM2.5 Emissions (ton/year)	PM2.5 Emissions (lb/yr)	PM2.5 Emissions (lb/hr)	PM2.5 Emissions (g/s)	Modeled Area (m^2)	PM2.5 Emission Rate $g/s/m^2$
2020-2021	Building A	CON_FUG_A	0.0902	180.5	0.04495	5.66E-03	6,171	9.18E-07
2020-2021	Building B	CON_FUG_B	0.0906	181.2	0.04513	5.69E-03	6,968	8.16E-07
Total			***0.1808***	***361.7***	***0.0901***	***0.0114***		
		hr/day =	11	(7am - 6pm)				
		days/yr =	365					
		hours/year =	4015					

DPM Construction Emissions and Modeling Emission Rates - With Mitigation

Construction Year	Activity	DPM (ton/year)	Area Source	DPM Emissions (lb/yr)	DPM Emissions (lb/hr)	DPM Emissions (g/s)	Modeled Area (m^2)	DPM Emission Rate ($g/s/m^2$)
2020-2021	Building A	0.0174	CON_DPM_A	34.8	0.00867	1.09E-03	6,171	1.77E-07
2020-2021	Building B	0.0173	CON_DPM_C	34.6	0.00863	1.09E-03	6,968	1.56E-07
							13,139	
Total		***0.0347***		***69***	***0.0173***	***0.0022***		
		hr/day =	11	(7am - 6pm)				
		days/yr =	365					
		hours/year =	4015					

PM2.5 Fugitive Dust Construction Emissions for Modeling - With Mitigation

Construction Year	Activity	Area Source	PM2.5 Emissions (ton/year)	PM2.5 Emissions (lb/yr)	PM2.5 Emissions (lb/hr)	PM2.5 Emissions (g/s)	Modeled Area (m^2)	PM2.5 Emission Rate $g/s/m^2$
2020-2021	Building A	CON_DPM_A	0.0247	49.5	0.01232	1.55E-03	6,171	2.52E-07
2020-2021	Building B	CON_DPM_C	0.0239	47.8	0.01191	1.50E-03	6,968	2.15E-07
Total			***0.0486***	***97.3***	***0.0242***	***0.0031***		
		hr/day =	11	(7am - 6pm)				
		days/yr =	365					
		hours/year =	4015					

MEI Results (Simultaneous Construction)

1001 North Shoreline Boulevard, Mountain View, CA - Construction Health Impact Summary

Maximum Impacts at MEI Location - Unmitigated

Emissions Year	Maximum Concentrations		Cancer Risk (per million)		Hazard Index	Maximum Annual PM2.5 Concentration
	Exhaust PM10/DPM ($\mu g/m^3$)	Fugitive PM2.5 ($\mu g/m^3$)	Infant/Child	Adult	(-)	($\mu g/m^3$)
2020-2021	0.3010	0.1740	**53.5**	**0.9**	**0.060**	**0.48**

Maximum Impacts at MEI Location - With Mitigation

Emissions Year	Maximum Concentrations		Cancer Risk (per million)		Hazard Index	Maximum Annual PM2.5 Concentration
	Exhaust PM10/DPM ($\mu g/m^3$)	Fugitive PM2.5 ($\mu g/m^3$)	Infant/Child	Adult	(-)	($\mu g/m^3$)
2020-2021	0.0305	0.0463	**5.4**	**0.0**	**0.006**	**0.08**

1001 North Shoreline Boulevard, Mountain View, CA - Construction Impacts - Without Mitigation
Maximum DPM Cancer Risk and PM2.5 Calculations From Construction of Both Building A & B
Impacts at Off-Site MEI Location - 1.5 meter receptor height

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air $(\mu g/m^3)$
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Values

	Infant/Child				Adult
Age -->	**3rd Trimester**	**0 - 2**	**2 - 9**	**2 - 16**	**16 - 30**
Parameter					
ASF =	10	10	3	3	1
CPF =	1.10E+00	1.10E+00	1.10E+00	1.10E+00	1.10E+00
DBR* =	361	1090	631	572	261
A =	1	1	1	1	1
EF =	350	350	350	350	350
AT =	70	70	70	70	70
FAH =	1.00	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

			Infant/Child - Exposure Information			Infant/Child	Adult - Exposure Information			Adult	Maximum	
				DPM Conc (ug/m3)	Age	Cancer	Modeled		Age	Cancer	Fugitive	Total
Exposure	Exposure Duration				Sensitivity	Risk	DPM Conc (ug/m3)		Sensitivity	Risk	PM2.5	PM2.5
Year	(years)	Age	Year	Annual	Factor	(per million)	Year	Annual	Factor	(per million)		
0	0.25	-0.25 - 0*	2020-2020	0.3010	10	4.09	2020-2020	0.3010	-	-		
1	1	0 - 1	2020-2021	0.3010	10	49.44	2020-2021	0.3010	1	0.86	0.1740	0.4750
2	1	1 - 2			10	0.00			1	0.00		
3	1	2 - 3			3	0.00			1	0.00		
4	1	3 - 4			3	0.00			1	0.00		
5	1	4 - 5			3	0.00			1	0.00		
6	1	5 - 6			3	0.00			1	0.00		
7	1	6 - 7			3	0.00			1	0.00		
8	1	7 - 8			3	0.00			1	0.00		
9	1	8 - 9			3	0.00			1	0.00		
10	1	9 - 10			3	0.00			1	0.00		
11	1	10 - 11			3	0.00			1	0.00		
12	1	11 - 12			3	0.00			1	0.00		
13	1	12 - 13			3	0.00			1	0.00		
14	1	13 - 14			3	0.00			1	0.00		
15	1	14 - 15			3	0.00			1	0.00		
16	1	15 - 16			3	0.00			1	0.00		
17	1	16-17			1	0.00			1	0.00		
18	1	17-18			1	0.00			1	0.00		
19	1	18-19			1	0.00			1	0.00		
20	1	19-20			1	0.00			1	0.00		
21	1	20-21			1	0.00			1	0.00		
22	1	21-22			1	0.00			1	0.00		
23	1	22-23			1	0.00			1	0.00		
24	1	23-24			1	0.00			1	0.00		
25	1	24-25			1	0.00			1	0.00		
26	1	25-26			1	0.00			1	0.00		
27	1	26-27			1	0.00			1	0.00		
28	1	27-28			1	0.00			1	0.00		
29	1	28-29			1	0.00			1	0.00		
30	1	29-30			1	0.00			1	0.00		
Total Increased Cancer Risk						**53.5**				**0.86**		

* Third trimester of pregnancy

1001 North Shoreline Boulevard, Mountain View, CA - Construction Impacts - With Mitigation
Maximum DPM Cancer Risk and PM2.5 Calculations From Construction of Both Building A & B
Impacts at Off-Site MEI Location - 1.5 meter receptor height

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air $(\mu g/m^3)$
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Values

	Infant/Child				Adult
Age -->	**3rd Trimester**	**0 - 2**	**2 - 9**	**2 - 16**	**16 - 30**
Parameter					
ASF =	10	10	3	3	1
CPF =	1.10E+00	1.10E+00	1.10E+00	1.10E+00	1.10E+00
DBR* =	361	1090	631	572	261
A =	1	1	1	1	1
EF =	350	350	350	350	350
AT =	70	70	70	70	70
FAH =	1.00	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

			Infant/Child - Exposure Information				Adult - Exposure Information				Maximum	
							Modeled					
Exposure	Exposure Duration		DPM Conc (ug/m3)		Age Sensitivity	Infant/Child Cancer Risk	DPM Conc (ug/m3)		Age Sensitivity	Adult Cancer Risk	Fugitive	Total
Year	(years)	Age	Year	Annual	Factor	(per million)	Year	Annual	Factor	(per million)	PM2.5	PM2.5
0	0.25	-0.25 - 0*	2020-2020	0.0305	10	0.42	2020-2020	0.0305	-	-		
1	1	0 - 1	2020-2021	0.0305	10	5.01	2020-2021	0.0305	1	0.09	0.0463	0.0768
2	1	1 - 2			10	0.00			1	0.00		
3	1	2 - 3			3	0.00			1	0.00		
4	1	3 - 4			3	0.00			1	0.00		
5	1	4 - 5			3	0.00			1	0.00		
6	1	5 - 6			3	0.00			1	0.00		
7	1	6 - 7			3	0.00			1	0.00		
8	1	7 - 8			3	0.00			1	0.00		
9	1	8 - 9			3	0.00			1	0.00		
10	1	9 - 10			3	0.00			1	0.00		
11	1	10 - 11			3	0.00			1	0.00		
12	1	11 - 12			3	0.00			1	0.00		
13	1	12 - 13			3	0.00			1	0.00		
14	1	13 - 14			3	0.00			1	0.00		
15	1	14 - 15			3	0.00			1	0.00		
16	1	15 - 16			3	0.00			1	0.00		
17	1	16-17			1	0.00			1	0.00		
18	1	17-18			1	0.00			1	0.00		
19	1	18-19			1	0.00			1	0.00		
20	1	19-20			1	0.00			1	0.00		
21	1	20-21			1	0.00			1	0.00		
22	1	21-22			1	0.00			1	0.00		
23	1	22-23			1	0.00			1	0.00		
24	1	23-24			1	0.00			1	0.00		
25	1	24-25			1	0.00			1	0.00		
26	1	25-26			1	0.00			1	0.00		
27	1	26-27			1	0.00			1	0.00		
28	1	27-28			1	0.00			1	0.00		
29	1	28-29			1	0.00			1	0.00		
30	1	29-30			1	0.00			1	0.00		
Total Increased Cancer Risk						**5.4**				**0.09**		

* Third trimester of pregnancy

Appendix C

Supplemental Air Quality and Greenhouse Gas Emissions Information

Residences @ Shoreline Gateway - Operation 2021

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	203.00	Dwelling Unit	2.00	275,867.00	453
Condo/Townhouse High Rise	100.00	Dwelling Unit	1.00	152,421.00	222
Enclosed Parking with Elevator	244.00	Space	0.50	99,629.00	0
Enclosed Parking with Elevator	128.00	Space	0.50	51,951.00	0
Unenclosed Parking with Elevator	359.00	Space	0.55	130,820.00	0
Parking Lot	52.00	Space	1.22	53,324.00	0
Strip Mall	3.00	1000sqft	0.07	3,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Per PG&E emissions factors for 2020

Land Use - 5.84 development area lot acerage, bldg sq ft per plans, population based on 2.4 pph and 7.5% vacancy

Construction Phase - Operation only

Off-road Equipment - Operation only

Grading - Operation only

Trips and VMT - Operation only

Vehicle Trips - Trip rates adjusted per Hexagon TIA

Woodstoves - No woodstoves. 1 outdoor gas fireplace assumed for Block B amenities.

Energy Use -

Water And Wastewater - Residential bldg water use estimated per Utility Impact Study, sewer treated at Palo Alto RWC Plant

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	230.00	0.00
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	PhaseEndDate	8/7/2020	7/10/2020
tblConstructionPhase	PhaseEndDate	6/12/2020	7/26/2019
tblConstructionPhase	PhaseEndDate	6/14/2019	5/20/2019
tblConstructionPhase	PhaseEndDate	7/26/2019	6/28/2019
tblConstructionPhase	PhaseEndDate	7/10/2020	6/12/2020
tblConstructionPhase	PhaseEndDate	6/28/2019	6/14/2019
tblFireplaces	NumberGas	30.45	0.00
tblFireplaces	NumberGas	15.00	1.00
tblFireplaces	NumberNoFireplace	8.12	203.00
tblFireplaces	NumberNoFireplace	4.00	99.00
tblFireplaces	NumberWood	34.51	0.00
tblFireplaces	NumberWood	17.00	0.00
tblLandUse	LandUseSquareFeet	203,000.00	275,867.00
tblLandUse	LandUseSquareFeet	100,000.00	152,421.00
tblLandUse	LandUseSquareFeet	97,600.00	99,629.00
tblLandUse	LandUseSquareFeet	51,200.00	51,951.00

tblLandUse	LandUseSquareFeet	143,600.00	130,820.00
tblLandUse	LandUseSquareFeet	20,800.00	53,324.00
tblLandUse	LotAcreage	5.34	2.00
tblLandUse	LotAcreage	1.56	1.00
tblLandUse	LotAcreage	2.20	0.50
tblLandUse	LotAcreage	1.15	0.50
tblLandUse	LotAcreage	3.23	0.55
tblLandUse	LotAcreage	0.47	1.22
tblLandUse	Population	581.00	453.00
tblLandUse	Population	286.00	222.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblTripsAndVMT	VendorTripNumber	88.00	0.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	360.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	72.00	0.00
tblVehicleTrips	ST_TR	6.39	3.66
tblVehicleTrips	ST_TR	4.31	3.93
tblVehicleTrips	ST_TR	42.04	456.38
tblVehicleTrips	SU_TR	5.86	3.35
tblVehicleTrips	SU_TR	3.43	3.12
tblVehicleTrips	SU_TR	20.43	221.79
tblVehicleTrips	WD_TR	6.65	3.81
tblVehicleTrips	WD_TR	4.18	3.81
tblVehicleTrips	WD_TR	44.32	481.13
tblWater	AerobicPercent	87.46	100.00

tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	13,226,267.20	7,409,500.00
tblWater	IndoorWaterUseRate	6,515,402.56	3,650,000.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	4.06	0.00
tblWoodstoves	NumberCatalytic	2.00	0.00
tblWoodstoves	NumberNoncatalytic	4.06	0.00
tblWoodstoves	NumberNoncatalytic	2.00	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.0852	0.0262	2.2620	1.2000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	3.8139	3.8139	3.6000e-003	0.0000	3.9046
Energy	0.0142	0.1210	0.0516	7.7000e-004		9.7800e-003	9.7800e-003		9.7800e-003	9.7800e-003	0.0000	464.9334	464.9334	0.0352	9.2900e-003	468.5809
Mobile	0.5756	2.3031	6.2091	0.0196	1.7261	0.0172	1.7433	0.4621	0.0161	0.4781	0.0000	1,792.2819	1,792.2819	0.0654	0.0000	1,793.9169
Waste						0.0000	0.0000		0.0000	0.0000	28.9323	0.0000	28.9323	1.7099	0.0000	71.6786
Water						0.0000	0.0000		0.0000	0.0000	3.9915	13.8227	17.8142	0.0151	8.9700e-003	20.8642

Total	**2.6749**	**2.4503**	**8.5227**	**0.0205**	**1.7261**	**0.0394**	**1.7656**	**0.4621**	**0.0383**	**0.5004**	**32.9238**	**2,274.8520**	**2,307.7758**	**1.8291**	**0.0183**	**2,358.9451**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.0852	0.0262	2.2620	1.2000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	3.8139	3.8139	3.6000e-003	0.0000	3.9046
Energy	0.0142	0.1210	0.0516	7.7000e-004		9.7800e-003	9.7800e-003		9.7800e-003	9.7800e-003	0.0000	464.9334	464.9334	0.0352	9.2900e-003	468.5809
Mobile	0.5756	2.3031	6.2091	0.0196	1.7261	0.0172	1.7433	0.4621	0.0161	0.4781	0.0000	1,792.2819	1,792.2819	0.0654	0.0000	1,793.9169
Waste						0.0000	0.0000		0.0000	0.0000	28.9323	0.0000	28.9323	1.7099	0.0000	71.6786
Water						0.0000	0.0000		0.0000	0.0000	3.9915	13.8227	17.8142	0.0151	8.9700e-003	20.8642
Total	**2.6749**	**2.4503**	**8.5227**	**0.0205**	**1.7261**	**0.0394**	**1.7656**	**0.4621**	**0.0383**	**0.5004**	**32.9238**	**2,274.8520**	**2,307.7758**	**1.8291**	**0.0183**	**2,358.9451**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/20/2019	5/20/2019	5	1	
2	Site Preparation	Site Preparation	6/15/2019	6/14/2019	5	0	
3	Grading	Grading	6/29/2019	6/28/2019	5	0	
4	Building Construction	Building Construction	7/27/2019	7/26/2019	5	0	
5	Paving	Paving	6/13/2020	6/12/2020	5	0	

6	Architectural Coating	Architectural Coating	7/11/2020	7/10/2020	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.77

Residential Indoor: 867,283; Residential Outdoor: 289,094; Non-Residential Indoor: 4,500; Non-Residential Outdoor: 1,500; Striped

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	0	8.00	158	0.38
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Grading	Excavators	1	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.5756	2.3031	6.2091	0.0196	1.7261	0.0172	1.7433	0.4621	0.0161	0.4781	0.0000	1,792.2819	1,792.2819	0.0654	0.0000	1,793.9169
Unmitigated	0.5756	2.3031	6.2091	0.0196	1.7261	0.0172	1.7433	0.4621	0.0161	0.4781	0.0000	1,792.2819	1,792.2819	0.0654	0.0000	1,793.9169

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT

Apartments Mid Rise	773.43	742.98	680.05	1,745,463	1,745,463
Condo/Townhouse High Rise	381.00	393.00	312.00	861,154	861,154
Enclosed Parking with Elevator	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	1,443.39	1,369.14	665.37	2,035,365	2,035,365
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	2,597.82	2,505.12	1,657.42	4,641,981	4,641,981

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Condo/Townhouse High Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15
Unenclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.607897	0.037434	0.184004	0.107261	0.014919	0.004991	0.012447	0.020659	0.002115	0.001554	0.005334	0.000623	0.000761
Condo/Townhouse High Rise	0.607897	0.037434	0.184004	0.107261	0.014919	0.004991	0.012447	0.020659	0.002115	0.001554	0.005334	0.000623	0.000761
Enclosed Parking with Elevator	0.607897	0.037434	0.184004	0.107261	0.014919	0.004991	0.012447	0.020659	0.002115	0.001554	0.005334	0.000623	0.000761
Parking Lot	0.607897	0.037434	0.184004	0.107261	0.014919	0.004991	0.012447	0.020659	0.002115	0.001554	0.005334	0.000623	0.000761
Strip Mall	0.607897	0.037434	0.184004	0.107261	0.014919	0.004991	0.012447	0.020659	0.002115	0.001554	0.005334	0.000623	0.000761
Unenclosed Parking with Elevator	0.607897	0.037434	0.184004	0.107261	0.014919	0.004991	0.012447	0.020659	0.002115	0.001554	0.005334	0.000623	0.000761

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	324.8607	324.8607	0.0325	6.7200e-003	327.6758
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	324.8607	324.8607	0.0325	6.7200e-003	327.6758
NaturalGas Mitigated	0.0142	0.1210	0.0516	7.7000e-004		9.7800e-003	9.7800e-003		9.7800e-003	9.7800e-003	0.0000	140.0727	140.0727	2.6800e-003	2.5700e-003	140.9051
NaturalGas Unmitigated	0.0142	0.1210	0.0516	7.7000e-004		9.7800e-003	9.7800e-003		9.7800e-003	9.7800e-003	0.0000	140.0727	140.0727	2.6800e-003	2.5700e-003	140.9051

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.75381e+006	9.4600e-003	0.0808	0.0344	5.2000e-004		6.5300e-003	6.5300e-003		6.5300e-003	6.5300e-003	0.0000	93.5899	93.5899	1.7900e-003	1.7200e-003	94.1461
Condo/Townhouse High Rise	863945	4.6600e-003	0.0398	0.0169	2.5000e-004		3.2200e-003	3.2200e-003		3.2200e-003	3.2200e-003	0.0000	46.1034	46.1034	8.8000e-004	8.5000e-004	46.3774
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	7110	4.0000e-005	3.5000e-004	2.9000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.3794	0.3794	1.0000e-005	1.0000e-005	0.3817
Unenclosed Parking with	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0142**	**0.1210**	**0.0516**	**7.7000e-004**		**9.7800e-003**	**9.7800e-003**		**9.7800e-003**	**9.7800e-003**	**0.0000**	**140.0727**	**140.0727**	**2.6800e-003**	**2.5800e-003**	**140.9051**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.75381e+006	9.4600e-003	0.0808	0.0344	5.2000e-004		6.5300e-003	6.5300e-003		6.5300e-003	6.5300e-003	0.0000	93.5899	93.5899	1.7900e-003	1.7200e-003	94.1461
Condo/Townhouse High Rise	863945	4.6600e-003	0.0398	0.0169	2.5000e-004		3.2200e-003	3.2200e-003		3.2200e-003	3.2200e-003	0.0000	46.1034	46.1034	8.8000e-004	8.5000e-004	46.3774
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	7110	4.0000e-005	3.5000e-004	2.9000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.3794	0.3794	1.0000e-005	1.0000e-005	0.3817
Unenclosed Parking with	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0142**	**0.1210**	**0.0516**	**7.7000e-004**		**9.7800e-003**	**9.7800e-003**		**9.7800e-003**	**9.7800e-003**	**0.0000**	**140.0727**	**140.0727**	**2.6800e-003**	**2.5800e-003**	**140.9051**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	838055	110.2393	0.0110	2.2800e-003	111.1945
Condo/Townhouse High Rise	438801	57.7207	5.7700e-003	1.1900e-003	58.2209
Enclosed Parking with Elevator	304433	40.0456	4.0000e-003	8.3000e-004	40.3927
Enclosed Parking with Elevator	583826	76.7975	7.6800e-003	1.5900e-003	77.4630
Parking Lot	18663.4	2.4550	2.5000e-004	5.0000e-005	2.4763
Strip Mall	32070	4.2186	4.2000e-004	9.0000e-005	4.2551

Unenclosed Parking with Elevator	253791	33.3841	3.3400e-003	6.9000e-004	33.6734
Total		**324.8608**	**0.0325**	**6.7200e-003**	**327.6758**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	838055	110.2393	0.0110	2.2800e-003	111.1945
Condo/Townhouse High Rise	438801	57.7207	5.7700e-003	1.1900e-003	58.2209
Enclosed Parking with Elevator	304433	40.0456	4.0000e-003	8.3000e-004	40.3927
Enclosed Parking with Elevator	583826	76.7975	7.6800e-003	1.5900e-003	77.4630
Parking Lot	18663.4	2.4550	2.5000e-004	5.0000e-005	2.4763
Strip Mall	32070	4.2186	4.2000e-004	9.0000e-005	4.2551
Unenclosed Parking with Elevator	253791	33.3841	3.3400e-003	6.9000e-004	33.6734
Total		**324.8608**	**0.0325**	**6.7200e-003**	**327.6758**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Mitigated	2.0852	0.0262	2.2620	1.2000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	3.8139	3.8139	3.6000e-003	0.0000	3.9046
Unmitigated	2.0852	0.0262	2.2620	1.2000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	3.8139	3.8139	3.6000e-003	0.0000	3.9046

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3101					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.7061					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.0000e-005	1.1000e-004	5.0000e-005	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1248	0.1248	0.0000	0.0000	0.1256
Landscaping	0.0690	0.0261	2.2620	1.2000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	3.6891	3.6891	3.6000e-003	0.0000	3.7790
Total	**2.0852**	**0.0262**	**2.2620**	**1.2000e-004**		**0.0125**	**0.0125**		**0.0125**	**0.0125**	**0.0000**	**3.8139**	**3.8139**	**3.6000e-003**	**0.0000**	**3.9046**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3101					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.7061					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Hearth	1.0000e-005	1.1000e-004	5.0000e-005	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1248	0.1248	0.0000	0.0000	0.1256
Landscaping	0.0690	0.0261	2.2620	1.2000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	3.6891	3.6891	3.6000e-003	0.0000	3.7790
Total	**2.0852**	**0.0262**	**2.2620**	**1.2000e-004**		**0.0125**	**0.0125**		**0.0125**	**0.0125**	**0.0000**	**3.8139**	**3.8139**	**3.6000e-003**	**0.0000**	**3.9046**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	17.8142	0.0151	8.9700e-003	20.8642
Unmitigated	17.8142	0.0151	8.9700e-003	20.8642

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	7.4095 / 8.3383	11.7343	9.9300e-003	5.8900e-003	13.7377
Condo/Townhouse High Rise	3.65 / 4.10754	5.7804	4.8900e-003	2.9000e-003	6.7673
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000

Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.222218 / 0.136198	0.2995	2.9000e-004	1.8000e-004	0.3591
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**17.8142**	**0.0151**	**8.9700e-003**	**20.8642**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	7.4095 / 8.3383	11.7343	9.9300e-003	5.8900e-003	13.7377
Condo/Townhouse High Rise	3.65 / 4.10754	5.7804	4.8900e-003	2.9000e-003	6.7673
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.222218 / 0.136198	0.2995	2.9000e-004	1.8000e-004	0.3591
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**17.8142**	**0.0151**	**8.9700e-003**	**20.8642**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	28.9323	1.7099	0.0000	71.6786
Unmitigated	28.9323	1.7099	0.0000	71.6786

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	93.38	18.9553	1.1202	0.0000	46.9609
Condo/Townhouse High Rise	46	9.3376	0.5518	0.0000	23.1335
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	3.15	0.6394	0.0378	0.0000	1.5841
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		**28.9323**	**1.7099**	**0.0000**	**71.6786**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e

Land Use	tons	MT/yr			
Apartments Mid Rise	93.38	18.9553	1.1202	0.0000	46.9609
Condo/Townhouse High Rise	46	9.3376	0.5518	0.0000	23.1335
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	3.15	0.6394	0.0378	0.0000	1.5841
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		**28.9323**	**1.7099**	**0.0000**	**71.6786**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Residences @ Shoreline Gateway - Operation 2023

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	244.00	Space	0.50	99,629.00	0
Enclosed Parking with Elevator	128.00	Space	0.50	51,951.00	0
Parking Lot	52.00	Space	1.22	53,324.00	0
Unenclosed Parking with Elevator	359.00	Space	0.55	130,820.00	0
Apartments Mid Rise	203.00	Dwelling Unit	2.00	275,867.00	453
Condo/Townhouse High Rise	100.00	Dwelling Unit	1.00	152,421.00	222
Strip Mall	3.00	1000sqft	0.07	3,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Per PG&E emissions factors for 2020

Land Use - 5.84 development area lot acerage, bldg sq ft per plans, population based on 2.4 pph and 7.5% vacancy

Construction Phase - Operation only

Off-road Equipment - Operation only

Trips and VMT - Operation only

Grading - Operation only

Vehicle Trips - Trip rates adjusted per Hexagon TIA

Woodstoves - No woodstoves. 1 outdoor gas fireplace assumed for Block B amenities.

Energy Use -

Water And Wastewater - Residential bldg water use estimated per Utility Impact Study, sewer treated at Palo Alto RWC Plant

Off-road Equipment - Operation Only

Off-road Equipment - Operation only

Off-road Equipment - Operation only

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	230.00	0.00
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblFireplaces	NumberGas	30.45	0.00
tblFireplaces	NumberGas	15.00	1.00
tblFireplaces	NumberNoFireplace	8.12	203.00
tblFireplaces	NumberNoFireplace	4.00	99.00
tblFireplaces	NumberWood	34.51	0.00
tblFireplaces	NumberWood	17.00	0.00
tblLandUse	LandUseSquareFeet	51,200.00	51,951.00
tblLandUse	LandUseSquareFeet	97,600.00	99,629.00
tblLandUse	LandUseSquareFeet	20,800.00	53,324.00
tblLandUse	LandUseSquareFeet	143,600.00	130,820.00
tblLandUse	LandUseSquareFeet	203,000.00	275,867.00
tblLandUse	LandUseSquareFeet	100,000.00	152,421.00
tblLandUse	LotAcreage	1.15	0.50

tblLandUse	LotAcreage	2.20	0.50
tblLandUse	LotAcreage	0.47	1.22
tblLandUse	LotAcreage	3.23	0.55
tblLandUse	LotAcreage	5.34	2.00
tblLandUse	LotAcreage	1.56	1.00
tblLandUse	Population	581.00	453.00
tblLandUse	Population	286.00	222.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblTripsAndVMT	VendorTripNumber	88.00	0.00
tblTripsAndVMT	WorkerTripNumber	360.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	72.00	0.00
tblVehicleTrips	ST_TR	6.39	3.66
tblVehicleTrips	ST_TR	4.31	3.93
tblVehicleTrips	ST_TR	42.04	456.38
tblVehicleTrips	SU_TR	5.86	3.35

tblVehicleTrips	SU_TR	3.43	3.12
tblVehicleTrips	SU_TR	20.43	221.79
tblVehicleTrips	WD_TR	6.65	3.81
tblVehicleTrips	WD_TR	4.18	3.81
tblVehicleTrips	WD_TR	44.32	481.13
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	13,226,267.20	7,409,500.00
tblWater	IndoorWaterUseRate	6,515,402.56	3,650,000.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	4.06	0.00
tblWoodstoves	NumberCatalytic	2.00	0.00
tblWoodstoves	NumberNoncatalytic	4.06	0.00
tblWoodstoves	NumberNoncatalytic	2.00	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					

2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Area	2.0846	0.0261	2.2576	1.2000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	3.8139	3.8139	3.5700e-003	0.0000	3.9039
Energy	0.0142	0.1210	0.0516	7.7000e-004		9.7800e-003	9.7800e-003		9.7800e-003	9.7800e-003	0.0000	464.9334	464.9334	0.0352	9.2900e-003	468.5809
Mobile	0.4902	1.7875	5.3136	0.0183	1.7261	0.0145	1.7406	0.4620	0.0135	0.4755	0.0000	1,680.6162	1,680.6162	0.0556	0.0000	1,682.0070
Waste						0.0000	0.0000		0.0000	0.0000	28.9323	0.0000	28.9323	1.7099	0.0000	71.6786
Water						0.0000	0.0000		0.0000	0.0000	3.9915	13.8227	17.8142	0.0151	8.9700e-003	20.8642
Total	**2.5890**	**1.9346**	**7.6228**	**0.0192**	**1.7261**	**0.0367**	**1.7628**	**0.4620**	**0.0357**	**0.4978**	**32.9238**	**2,163.1863**	**2,196.1101**	**1.8193**	**0.0183**	**2,247.0346**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.0846	0.0261	2.2576	1.2000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	3.8139	3.8139	3.5700e-003	0.0000	3.9039
Energy	0.0142	0.1210	0.0516	7.7000e-004		9.7800e-003	9.7800e-003		9.7800e-003	9.7800e-003	0.0000	464.9334	464.9334	0.0352	9.2900e-003	468.5809
Mobile	0.4902	1.7875	5.3136	0.0183	1.7261	0.0145	1.7406	0.4620	0.0135	0.4755	0.0000	1,680.6162	1,680.6162	0.0556	0.0000	1,682.0070
Waste						0.0000	0.0000		0.0000	0.0000	28.9323	0.0000	28.9323	1.7099	0.0000	71.6786
Water						0.0000	0.0000		0.0000	0.0000	3.9915	13.8227	17.8142	0.0151	8.9700e-003	20.8642
Total	**2.5890**	**1.9346**	**7.6228**	**0.0192**	**1.7261**	**0.0367**	**1.7628**	**0.4620**	**0.0357**	**0.4978**	**32.9238**	**2,163.1863**	**2,196.1101**	**1.8193**	**0.0183**	**2,247.0346**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/20/2019	5/20/2019	5	1	
2	Site Preparation	Site Preparation	6/15/2019	6/14/2019	5	0	
3	Grading	Grading	6/29/2019	6/28/2019	5	0	
4	Building Construction	Building Construction	7/27/2019	7/26/2019	5	0	
5	Paving	Paving	6/13/2020	6/12/2020	5	0	
6	Architectural Coating	Architectural Coating	7/11/2020	7/10/2020	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.77

Residential Indoor: 867,283; Residential Outdoor: 289,094; Non-Residential Indoor: 4,500; Non-Residential Outdoor: 1,500; Striped

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	0	7.00	231	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42

Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4902	1.7875	5.3136	0.0183	1.7261	0.0145	1.7406	0.4620	0.0135	0.4755	0.0000	1,680.6162	1,680.6162	0.0556	0.0000	1,682.0070
Unmitigated	0.4902	1.7875	5.3136	0.0183	1.7261	0.0145	1.7406	0.4620	0.0135	0.4755	0.0000	1,680.6162	1,680.6162	0.0556	0.0000	1,682.0070

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	773.43	742.98	680.05	1,745,463	1,745,463
Condo/Townhouse High Rise	381.00	393.00	312.00	861,154	861,154
Enclosed Parking with Elevator	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	1,443.39	1,369.14	665.37	2,035,365	2,035,365
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	2,597.82	2,505.12	1,657.42	4,641,981	4,641,981

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Condo/Townhouse High Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15
Unenclosed Parking with	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.612822	0.036208	0.182365	0.105071	0.013933	0.005011	0.012748	0.021514	0.002168	0.001529	0.005280	0.000629	0.000720
Condo/Townhouse High Rise	0.612822	0.036208	0.182365	0.105071	0.013933	0.005011	0.012748	0.021514	0.002168	0.001529	0.005280	0.000629	0.000720
Enclosed Parking with Elevator	0.612822	0.036208	0.182365	0.105071	0.013933	0.005011	0.012748	0.021514	0.002168	0.001529	0.005280	0.000629	0.000720
Parking Lot	0.612822	0.036208	0.182365	0.105071	0.013933	0.005011	0.012748	0.021514	0.002168	0.001529	0.005280	0.000629	0.000720
Strip Mall	0.612822	0.036208	0.182365	0.105071	0.013933	0.005011	0.012748	0.021514	0.002168	0.001529	0.005280	0.000629	0.000720
Unenclosed Parking with Elevator	0.612822	0.036208	0.182365	0.105071	0.013933	0.005011	0.012748	0.021514	0.002168	0.001529	0.005280	0.000629	0.000720

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	324.8607	324.8607	0.0325	6.7200e-003	327.6758
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	324.8607	324.8607	0.0325	6.7200e-003	327.6758
NaturalGas Mitigated	0.0142	0.1210	0.0516	7.7000e-004		9.7800e-003	9.7800e-003		9.7800e-003	9.7800e-003	0.0000	140.0727	140.0727	2.6800e-003	2.5700e-003	140.9051
NaturalGas Unmitigated	0.0142	0.1210	0.0516	7.7000e-004		9.7800e-003	9.7800e-003		9.7800e-003	9.7800e-003	0.0000	140.0727	140.0727	2.6800e-003	2.5700e-003	140.9051

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.75381e+006	9.4600e-003	0.0808	0.0344	5.2000e-004		6.5300e-003	6.5300e-003		6.5300e-003	6.5300e-003	0.0000	93.5899	93.5899	1.7900e-003	1.7200e-003	94.1461
Condo/Townhouse High Rise	863945	4.6600e-003	0.0398	0.0169	2.5000e-004		3.2200e-003	3.2200e-003		3.2200e-003	3.2200e-003	0.0000	46.1034	46.1034	8.8000e-004	8.5000e-004	46.3774
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	7110	4.0000e-005	3.5000e-004	2.9000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.3794	0.3794	1.0000e-005	1.0000e-005	0.3817

Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0142**	**0.1210**	**0.0516**	**7.7000e-004**		**9.7800e-003**	**9.7800e-003**		**9.7800e-003**	**9.7800e-003**	**0.0000**	**140.0727**	**140.0727**	**2.6800e-003**	**2.5800e-003**	**140.9051**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.75381e+006	9.4600e-003	0.0808	0.0344	5.2000e-004		6.5300e-003	6.5300e-003		6.5300e-003	6.5300e-003	0.0000	93.5899	93.5899	1.7900e-003	1.7200e-003	94.1461
Condo/Townhouse High Rise	863945	4.6600e-003	0.0398	0.0169	2.5000e-004		3.2200e-003	3.2200e-003		3.2200e-003	3.2200e-003	0.0000	46.1034	46.1034	8.8000e-004	8.5000e-004	46.3774
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	7110	4.0000e-005	3.5000e-004	2.9000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.3794	0.3794	1.0000e-005	1.0000e-005	0.3817
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0142**	**0.1210**	**0.0516**	**7.7000e-004**		**9.7800e-003**	**9.7800e-003**		**9.7800e-003**	**9.7800e-003**	**0.0000**	**140.0727**	**140.0727**	**2.6800e-003**	**2.5800e-003**	**140.9051**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	838055	110.2393	0.0110	2.2800e-003	111.1945
Condo/Townhouse High Rise	438801	57.7207	5.7700e-003	1.1900e-003	58.2209

Enclosed Parking with Elevator	304433	40.0456	4.0000e-003	8.3000e-004	40.3927
Enclosed Parking with Elevator	583826	76.7975	7.6800e-003	1.5900e-003	77.4630
Parking Lot	18663.4	2.4550	2.5000e-004	5.0000e-005	2.4763
Strip Mall	32070	4.2186	4.2000e-004	9.0000e-005	4.2551
Unenclosed Parking with Elevator	253791	33.3841	3.3400e-003	6.9000e-004	33.6734
Total		**324.8608**	**0.0325**	**6.7200e-003**	**327.6758**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	838055	110.2393	0.0110	2.2800e-003	111.1945
Condo/Townhouse High Rise	438801	57.7207	5.7700e-003	1.1900e-003	58.2209
Enclosed Parking with Elevator	304433	40.0456	4.0000e-003	8.3000e-004	40.3927
Enclosed Parking with Elevator	583826	76.7975	7.6800e-003	1.5900e-003	77.4630
Parking Lot	18663.4	2.4550	2.5000e-004	5.0000e-005	2.4763
Strip Mall	32070	4.2186	4.2000e-004	9.0000e-005	4.2551
Unenclosed Parking with Elevator	253791	33.3841	3.3400e-003	6.9000e-004	33.6734
Total		**324.8608**	**0.0325**	**6.7200e-003**	**327.6758**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.0846	0.0261	2.2576	1.2000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	3.8139	3.8139	3.5700e-003	0.0000	3.9039
Unmitigated	2.0846	0.0261	2.2576	1.2000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	3.8139	3.8139	3.5700e-003	0.0000	3.9039

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3101					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.7061					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.0000e-005	1.1000e-004	5.0000e-005	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1248	0.1248	0.0000	0.0000	0.1256
Landscaping	0.0685	0.0260	2.2575	1.2000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	3.6891	3.6891	3.5700e-003	0.0000	3.7783
Total	**2.0846**	**0.0261**	**2.2576**	**1.2000e-004**		**0.0125**	**0.0125**		**0.0125**	**0.0125**	**0.0000**	**3.8139**	**3.8139**	**3.5700e-003**	**0.0000**	**3.9039**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3101					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.7061					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.0000e-005	1.1000e-004	5.0000e-005	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1248	0.1248	0.0000	0.0000	0.1256
Landscaping	0.0685	0.0260	2.2575	1.2000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	3.6891	3.6891	3.5700e-003	0.0000	3.7783
Total	**2.0846**	**0.0261**	**2.2576**	**1.2000e-004**		**0.0125**	**0.0125**		**0.0125**	**0.0125**	**0.0000**	**3.8139**	**3.8139**	**3.5700e-003**	**0.0000**	**3.9039**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	17.8142	0.0151	8.9700e-003	20.8642
Unmitigated	17.8142	0.0151	8.9700e-003	20.8642

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e

Land Use	Mgal	MT/yr			
Apartments Mid Rise	7.4095 / 8.3383	11.7343	9.9300e-003	5.8900e-003	13.7377
Condo/Townhouse High Rise	3.65 / 4.10754	5.7804	4.8900e-003	2.9000e-003	6.7673
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.222218 / 0.136198	0.2995	2.9000e-004	1.8000e-004	0.3591
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**17.8142**	**0.0151**	**8.9700e-003**	**20.8642**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	7.4095 / 8.3383	11.7343	9.9300e-003	5.8900e-003	13.7377
Condo/Townhouse High Rise	3.65 / 4.10754	5.7804	4.8900e-003	2.9000e-003	6.7673
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.222218 / 0.136198	0.2995	2.9000e-004	1.8000e-004	0.3591
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**17.8142**	**0.0151**	**8.9700e-003**	**20.8642**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	28.9323	1.7099	0.0000	71.6786
Unmitigated	28.9323	1.7099	0.0000	71.6786

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	93.38	18.9553	1.1202	0.0000	46.9609
Condo/Townhouse High Rise	46	9.3376	0.5518	0.0000	23.1335
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	3.15	0.6394	0.0378	0.0000	1.5841
Unenclosed Parking with	0	0.0000	0.0000	0.0000	0.0000
Total		**28.9323**	**1.7099**	**0.0000**	**71.6786**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	93.38	18.9553	1.1202	0.0000	46.9609
Condo/Townhouse High Rise	46	9.3376	0.5518	0.0000	23.1335
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	3.15	0.6394	0.0378	0.0000	1.5841
Unenclosed Parking with	0	0.0000	0.0000	0.0000	0.0000
Total		**28.9323**	**1.7099**	**0.0000**	**71.6786**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Existing Health Risk of Construction MEI for Cumulative Analysis

Sources considered were within 1000 ft of the Construction MEI

Stationary Sources[1]

FACID	FNAME	FSTREET	Approximate Distance to MEI (m)	Risk at Site (i.e. 0 m) Cancer Risk (per 10^6)	Chronic Hazard	Acute Hazard	$PM_{2.5}$ ($\mu g/m^3$)	notes
1127	Teledyne Microwave[2]	1274 Terra Bella Avenue	390	508.2	0.03	0	0	*see BAAQMD Risk Tool Output*[3]
112348	Shoreline Shell	807 N Shoreline Blvd	250	21.7	0.04	0	0	*Stationary Source Screening Analysis Tool Santa Clara (2012)*[4]
103690	Chevron #9-6377	808 N Shoreline Blvd	285	30.0	0.05	0	0	*Stationary Source Screening Analysis Tool Santa Clara (2012)*[4]

FACID	FNAME	FSTREET	Approximate Distance to MEI (m)	At Sensitive Receptor Cancer Risk (per 10^6)	Chronic Hazard	Acute Hazard	$PM_{2.5}$ ($\mu g/m^3$)	notes
1127	Teledyne Microwave	1274 Terra Bella Avenue	390	31.6	0.00	0	0	*see distance multiplier tabs*[3]
112348	Shoreline Shell	807 N Shoreline Blvd	250	0.4	0.00	0	0	*see distance multiplier tabs*[5]
103690	Chevron #9-6377	808 N Shoreline Blvd	285	0.5	0.00	0	0	*see distance multiplier tabs*[5]

Major Roadways

	Roadway Direction	ADT[6]	Approximate Distance to MEI (ft)	At Sensitive Receptor Cancer Risk (per 10^6)	Chronic Hazard	Acute Hazard	$PM_{2.5}$ ($\mu g/m^3$)	notes
N Shoreline Blvd	North-South	25,000	765	1.93	0	0	0.044	*see BAAQMD Risk Tool Output*[7]
E Middlefield Road	East-West	13,700	900	1.12	0	0	0.02	*see BAAQMD Risk Tool Output*[7]

Highways

	Santa Clara 2012 Source	Approximate Distance to MEI (ft)	Approximate Distance to MEI (ft)	At Sensitive Receptor Cancer Risk (per 10^6)	Chronic Hazard	Acute Hazard	$PM_{2.5}$ ($\mu g/m^3$)	notes
US 101	link 271 (6ft elevation)	820	750 S	20.91	0.02	0.0	0.171	*conservatively round down to 750 ft distance*[8]

Total

	At Sensitive Receptor Cancer Risk (per 10^6)	Chronic Hazard	Acute Hazard	$PM_{2.5}$ ($\mu g/m^3$)
MEI Baseline Risk	56.44	0.02	0.01	0.24

Sources

1 BAAQMD, 2017. Permitted Station Sources 2017. Available at: https://baaqmd.maps.arcgis.com/apps/webappviewer/index.html?id=2387ae674013413f987b1071715daa65

2 BAAQMD, 2019. Detail Pollutants - Abate, Most Recent P/O Approved (2019), Teledyne Microwave (P# 1127). Provided by A. Flores 5/31/2019

3 BAAQMD, 2019. BAAQMD Health Risk Calculator (Beta 2.0), March 22, 2019 Provided by A. Flores 5/24/2019

4 BAAQMD, 2012. Stationary Source Analysis Screen Tool - Santa Clara 2012, May 30, 2012. Available at: http://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/google-earth-layers-may-25-2012/santa_clara_2012.kml?la=en

5 BAAQMD, 2012. Gasoline Dispensing Facility (GDF) Distance Multiplier Tool, June 13, 2012. Available at: http://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/multiplier-tools-may-2012/gdf-distance-multiplier-tool.xlsx?la=en

6 City of Mountain View, 2012. Mountain View 2030 General Plan, July 10,2012.

7 BAAQMD, 2015. Roadway Screening Analysis Calculator, April 16, 2015. Available at: http://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/screeningcalculator_4_16_15-xlsx.xlsx?la=en

Distance Multipler for Cancer Risk

To be used if a source is greater than 300 m from sensitive receptor

BAAQMD Health Risk Calculator (Beta 2.0) (Risk Tool) maximum distance allowed in 300 m

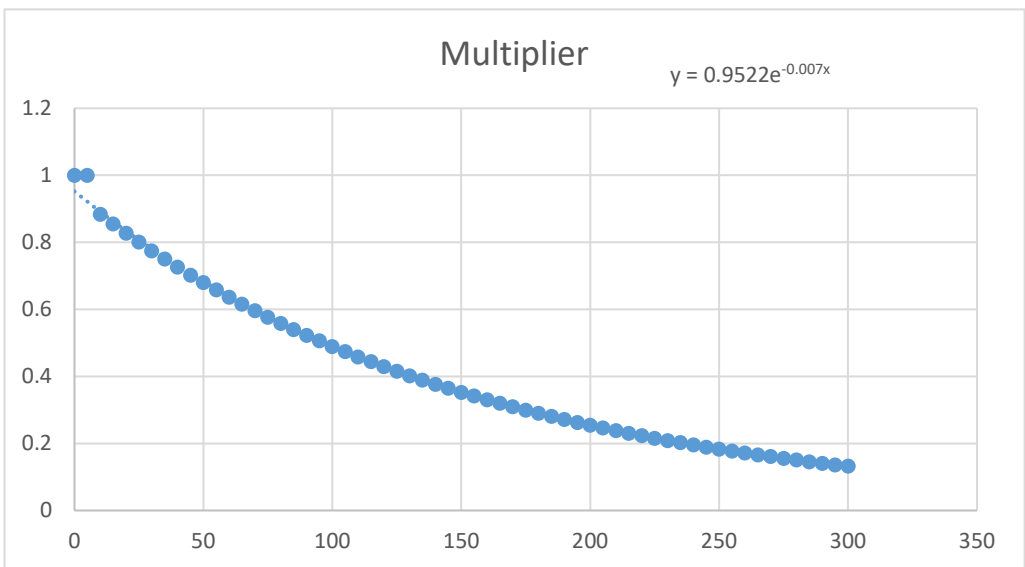
From Risk Tool:

Distance (meters)	Multiplier
0	1
5	1
10	0.883391
15	0.854878
20	0.827286
25	0.800585
30	0.774745
35	0.749739
40	0.725541
45	0.702123
50	0.679461
55	0.657531
60	0.636309
65	0.615771
70	0.595896
75	0.576663
80	0.558051
85	0.540039
90	0.522609
95	0.505741
100	0.489418
105	0.473621
110	0.458335
115	0.443541
120	0.429226
125	0.415372
130	0.401965
135	0.388992
140	0.376436
145	0.364287
150	0.352529
155	0.341151
160	0.33014
165	0.319484
170	0.309172
175	0.299193
180	0.289537
185	0.280192
190	0.271148
195	0.262397
200	0.253927
205	0.245732
210	0.2378
215	0.230125
220	0.222698
225	0.21551
230	0.208554
235	0.201823

Extrapolation

Input - Distance 390 meters

Output - Mulitplier 0.062102 *apply this number to cancer risk from Risk Tool at 0 m distance*



240	0.195309
245	0.189005
250	0.182905
255	0.177001
260	0.171288
265	0.16576
270	0.16041
275	0.155232
280	0.150222
285	0.145373
290	0.140681
295	0.136141
300	0.131747

How to Use the Distance Adjustment Multiplier Tool for Gasoline Dispensing Facilities (GDF)

This distance multiplier tool refines the screening values for cancer risk and chronic hazard index found in the District's Stationary Source Screening Analysis Tool to represent adjusted risk and hazard impacts that can be expected with farther distances from the source of emissions (GDF's).

1. Obtain the GDF cancer risk and/or chronic hazard index from the District's Stationary Source Screening Analysis tool for facilities where the Plant No. is preceded with a 'G'. If the distance to the nearest receptor is less than 20 meters, the distance adjustment multiplier table cannot be used and an air dispersion modeling analysis using site-specific information is needed to refine the cancer risk and/or chronic hazard index estimate.

2. Determine the shortest distance from the GDF to the nearest receptor.

3. In the table below, enter the cancer risk and/or chronic hazard index found in step 1 for the GDF in the row which aligns with the shortest distance from each GDF to the nearest receptor (found in step 2). If the shortest distance to the receptor falls between two distance values, select the multiplier corresponding to the smaller distance. For distances beyond 300 meters, use the multiplier 0.015. The resulting product is the adjusted cancer risk in a million or the adjusted chronic hazard index for the GDF.

Note: These distance adjustment multipliers may be used only for the screening level health risk values indicated in the District's Stationary Source Screening Analysis tool for gasoline dispensing facilities. This distance multiplier tool may not be used to adjust values from an HRA if an HRA for the facility was conducted.

Distance meters	Distance feet	Distance adjustment multiplier	Enter Cancer Risk	Adjusted Cancer Risk	Enter Chronic Hazard Index	Adjusted Chronic Hazard Index
20	66	1.000		0		0
25	82	0.728		0		0
30	98	0.559		0		0
35	115	0.445		0		0
40	131	0.365		0		0
45	148	0.305		0		0
50	164	0.260		0		0
55	180	0.225		0		0
60	197	0.197		0		0
65	213	0.174		0		0
70	230	0.155		0		0
75	246	0.139		0		0
80	262	0.126		0		0
85	279	0.114		0		0
90	295	0.104		0		0
95	312	0.096		0		0
100	328	0.088		0		0
105	344	0.082		0		0
110	361	0.076		0		0
115	377	0.071		0		0
120	394	0.066		0		0
125	410	0.062		0		0
130	426	0.058		0		0
135	443	0.055		0		0
140	459	0.052		0		0
145	476	0.049		0		0
150	492	0.046		0		0
155	508	0.044		0		0
160	525	0.042		0		0
165	541	0.040		0		0
170	558	0.038		0		0
175	574	0.036		0		0
180	590	0.034		0		0
185	607	0.033		0		0
190	623	0.031		0		0
195	640	0.030		0		0
200	656	0.029		0		0
205	672	0.028		0		0
210	689	0.027		0		0
215	705	0.026		0		0
220	722	0.025		0		0
225	738	0.024		0		0
230	754	0.023		0		0
235	771	0.022		0		0
240	787	0.022		0		0
245	804	0.021		0		0
250	820	0.020	21.654	0.436149363	0.036	0.000725103
255	836	0.020		0		0
260	853	0.019		0		0
265	869	0.018		0		0
270	886	0.018		0		0
275	902	0.017		0		0
280	918	0.017		0		0
285	935	0.016	30.026	0.488591248	0.05	0.000813614
290	951	0.016		0		0
295	968	0.015		0		0
300	984	0.015		0		0

Residences @ Shoreline Gateway - Reduced Density Alt Construction Block A

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	196.00	Space	1.76	78,400.00	0
Apartments Mid Rise	162.00	Dwelling Unit	4.26	162,000.00	463
Strip Mall	3.00	1000sqft	0.07	3,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Factor for 2020

Land Use -

Construction Phase - added trenching

Off-road Equipment - added aerial lifts

Off-road Equipment - trenching equip

Grading -

Demolition -

Energy Use -

Table Name	Column Name	Default Value	New Value
tblGrading	MaterialExported	0.00	1,000.00
tblGrading	MaterialImported	0.00	1,000.00
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.2267	2.0892	1.6693	3.5300e-003	0.2425	0.1018	0.3443	0.1058	0.0950	0.2008	0.0000	313.3755	313.3755	0.0585	0.0000	314.8368
2021	1.3492	1.5086	1.5511	3.3000e-003	0.0919	0.0712	0.1631	0.0247	0.0670	0.0917	0.0000	292.9145	292.9145	0.0470	0.0000	294.0887
Maximum	**1.3492**	**2.0892**	**1.6693**	**3.5300e-003**	**0.2425**	**0.1018**	**0.3443**	**0.1058**	**0.0950**	**0.2008**	**0.0000**	**313.3755**	**313.3755**	**0.0585**	**0.0000**	**314.8368**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.2267	2.0892	1.6693	3.5300e-003	0.2425	0.1018	0.3443	0.1058	0.0950	0.2008	0.0000	313.3753	313.3753	0.0585	0.0000	314.8366
2021	1.3492	1.5086	1.5511	3.3000e-003	0.0919	0.0712	0.1631	0.0247	0.0670	0.0917	0.0000	292.9143	292.9143	0.0470	0.0000	294.0885
Maximum	**1.3492**	**2.0892**	**1.6693**	**3.5300e-003**	**0.2425**	**0.1018**	**0.3443**	**0.1058**	**0.0950**	**0.2008**	**0.0000**	**313.3753**	**313.3753**	**0.0585**	**0.0000**	**314.8366**

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2020	8-31-2020	1.1661	1.1661
2	9-1-2020	11-30-2020	0.8405	0.8405
3	12-1-2020	2-28-2021	0.7818	0.7818
4	3-1-2021	5-31-2021	0.7689	0.7689
5	6-1-2021	8-31-2021	1.5916	1.5916
		Highest	1.5916	1.5916

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2020	6/26/2020	5	20	
2	Site Preparation	Site Preparation	6/27/2020	7/10/2020	5	10	
3	Grading	Grading	7/11/2020	8/7/2020	5	20	
4	Building Construction	Building Construction	8/8/2020	6/25/2021	5	230	

5	Paving	Paving	6/26/2021	7/23/2021	5	20	
6	Architectural Coating	Architectural Coating	7/24/2021	8/20/2021	5	20	
7	Utilities	Trenching	7/11/2020	8/7/2020	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 1.76

Residential Indoor: 328,050; Residential Outdoor: 109,350; Non-Residential Indoor: 4,500; Non-Residential Outdoor: 1,500; Striped

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	3	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	1	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Aerial Lifts	3	6.00	63	0.31

Utilities	Excavators	1	6.00	158	0.38
Utilities	Tractors/Loaders/Backhoes	1	6.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	69.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	250.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	151.00	31.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	6	30.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Utilities	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.4900e-003	0.0000	7.4900e-003	1.1300e-003	0.0000	1.1300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2386
Total	**0.0331**	**0.3320**	**0.2175**	**3.9000e-004**	**7.4900e-003**	**0.0166**	**0.0241**	**1.1300e-003**	**0.0154**	**0.0166**	**0.0000**	**33.9986**	**33.9986**	**9.6000e-003**	**0.0000**	**34.2386**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.9000e-004	0.0100	2.0500e-003	3.0000e-005	5.8000e-004	3.0000e-005	6.2000e-004	1.6000e-004	3.0000e-005	1.9000e-004	0.0000	2.6313	2.6313	1.2000e-004	0.0000	2.6344
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.6000e-004	3.7500e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0202	1.0202	3.0000e-005	0.0000	1.0209
Total	**7.9000e-004**	**0.0104**	**5.8000e-003**	**4.0000e-005**	**1.7700e-003**	**4.0000e-005**	**1.8200e-003**	**4.8000e-004**	**4.0000e-005**	**5.1000e-004**	**0.0000**	**3.6516**	**3.6516**	**1.5000e-004**	**0.0000**	**3.6552**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.4900e-003	0.0000	7.4900e-003	1.1300e-003	0.0000	1.1300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2385
Total	**0.0331**	**0.3320**	**0.2175**	**3.9000e-004**	**7.4900e-003**	**0.0166**	**0.0241**	**1.1300e-003**	**0.0154**	**0.0166**	**0.0000**	**33.9986**	**33.9986**	**9.6000e-003**	**0.0000**	**34.2385**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	2.9000e-004	0.0100	2.0500e-003	3.0000e-005	5.8000e-004	3.0000e-005	6.2000e-004	1.6000e-004	3.0000e-005	1.9000e-004	0.0000	2.6313	2.6313	1.2000e-004	0.0000	2.6344
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.6000e-004	3.7500e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0202	1.0202	3.0000e-005	0.0000	1.0209
Total	**7.9000e-004**	**0.0104**	**5.8000e-003**	**4.0000e-005**	**1.7700e-003**	**4.0000e-005**	**1.8200e-003**	**4.8000e-004**	**4.0000e-005**	**5.1000e-004**	**0.0000**	**3.6516**	**3.6516**	**1.5000e-004**	**0.0000**	**3.6552**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	**0.0204**	**0.2121**	**0.1076**	**1.9000e-004**	**0.0903**	**0.0110**	**0.1013**	**0.0497**	**0.0101**	**0.0598**	**0.0000**	**16.7153**	**16.7153**	**5.4100e-003**	**0.0000**	**16.8505**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.1000e-004	2.2500e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6121	0.6121	2.0000e-005	0.0000	0.6125
Total	**3.0000e-004**	**2.1000e-004**	**2.2500e-003**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.6121**	**0.6121**	**2.0000e-005**	**0.0000**	**0.6125**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	**0.0204**	**0.2121**	**0.1076**	**1.9000e-004**	**0.0903**	**0.0110**	**0.1013**	**0.0497**	**0.0101**	**0.0598**	**0.0000**	**16.7153**	**16.7153**	**5.4100e-003**	**0.0000**	**16.8505**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.1000e-004	2.2500e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6121	0.6121	2.0000e-005	0.0000	0.6125
Total	**3.0000e-004**	**2.1000e-004**	**2.2500e-003**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.6121**	**0.6121**	**2.0000e-005**	**0.0000**	**0.6125**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0656	0.0000	0.0656	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0243	0.2639	0.1605	3.0000e-004		0.0127	0.0127		0.0117	0.0117	0.0000	26.0588	26.0588	8.4300e-003	0.0000	26.2694
Total	**0.0243**	**0.2639**	**0.1605**	**3.0000e-004**	**0.0656**	**0.0127**	**0.0784**	**0.0337**	**0.0117**	**0.0454**	**0.0000**	**26.0588**	**26.0588**	**8.4300e-003**	**0.0000**	**26.2694**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0400e-003	0.0363	7.4300e-003	1.0000e-004	2.1200e-003	1.2000e-004	2.2400e-003	5.8000e-004	1.1000e-004	7.0000e-004	0.0000	9.5339	9.5339	4.4000e-004	0.0000	9.5448
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.6000e-004	3.7500e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0202	1.0202	3.0000e-005	0.0000	1.0209
Total	**1.5400e-003**	**0.0366**	**0.0112**	**1.1000e-004**	**3.3100e-003**	**1.3000e-004**	**3.4400e-003**	**9.0000e-004**	**1.2000e-004**	**1.0200e-003**	**0.0000**	**10.5541**	**10.5541**	**4.7000e-004**	**0.0000**	**10.5656**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0656	0.0000	0.0656	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	0.0243	0.2639	0.1605	3.0000e-004		0.0127	0.0127		0.0117	0.0117	0.0000	26.0587	26.0587	8.4300e-003	0.0000	26.2694
Total	**0.0243**	**0.2639**	**0.1605**	**3.0000e-004**	**0.0656**	**0.0127**	**0.0784**	**0.0337**	**0.0117**	**0.0454**	**0.0000**	**26.0587**	**26.0587**	**8.4300e-003**	**0.0000**	**26.2694**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0400e-003	0.0363	7.4300e-003	1.0000e-004	2.1200e-003	1.2000e-004	2.2400e-003	5.8000e-004	1.1000e-004	7.0000e-004	0.0000	9.5339	9.5339	4.4000e-004	0.0000	9.5448
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.6000e-004	3.7500e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0202	1.0202	3.0000e-005	0.0000	1.0209
Total	**1.5400e-003**	**0.0366**	**0.0112**	**1.1000e-004**	**3.3100e-003**	**1.3000e-004**	**3.4400e-003**	**9.0000e-004**	**1.2000e-004**	**1.0200e-003**	**0.0000**	**10.5541**	**10.5541**	**4.7000e-004**	**0.0000**	**10.5656**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1102	0.9977	0.8761	1.4000e-003		0.0581	0.0581		0.0546	0.0546	0.0000	120.4372	120.4372	0.0294	0.0000	121.1718
Total	**0.1102**	**0.9977**	**0.8761**	**1.4000e-003**		**0.0581**	**0.0581**		**0.0546**	**0.0546**	**0.0000**	**120.4372**	**120.4372**	**0.0294**	**0.0000**	**121.1718**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.3900e-003	0.1836	0.0489	4.4000e-004	0.0106	9.1000e-004	0.0115	3.0700e-003	8.7000e-004	3.9400e-003	0.0000	42.1446	42.1446	1.9300e-003	0.0000	42.1929
Worker	0.0261	0.0187	0.1965	5.9000e-004	0.0623	4.0000e-004	0.0627	0.0166	3.7000e-004	0.0169	0.0000	53.4053	53.4053	1.3100e-003	0.0000	53.4381
Total	**0.0325**	**0.2023**	**0.2454**	**1.0300e-003**	**0.0729**	**1.3100e-003**	**0.0742**	**0.0196**	**1.2400e-003**	**0.0209**	**0.0000**	**95.5499**	**95.5499**	**3.2400e-003**	**0.0000**	**95.6310**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1102	0.9977	0.8761	1.4000e-003		0.0581	0.0581		0.0546	0.0546	0.0000	120.4371	120.4371	0.0294	0.0000	121.1716
Total	**0.1102**	**0.9977**	**0.8761**	**1.4000e-003**		**0.0581**	**0.0581**		**0.0546**	**0.0546**	**0.0000**	**120.4371**	**120.4371**	**0.0294**	**0.0000**	**121.1716**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.3900e-003	0.1836	0.0489	4.4000e-004	0.0106	9.1000e-004	0.0115	3.0700e-003	8.7000e-004	3.9400e-003	0.0000	42.1446	42.1446	1.9300e-003	0.0000	42.1929
Worker	0.0261	0.0187	0.1965	5.9000e-004	0.0623	4.0000e-004	0.0627	0.0166	3.7000e-004	0.0169	0.0000	53.4053	53.4053	1.3100e-003	0.0000	53.4381
Total	**0.0325**	**0.2023**	**0.2454**	**1.0300e-003**	**0.0729**	**1.3100e-003**	**0.0742**	**0.0196**	**1.2400e-003**	**0.0209**	**0.0000**	**95.5499**	**95.5499**	**3.2400e-003**	**0.0000**	**95.6310**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1198	1.0982	1.0442	1.7000e-003		0.0604	0.0604		0.0568	0.0568	0.0000	145.9315	145.9315	0.0352	0.0000	146.8117
Total	**0.1198**	**1.0982**	**1.0442**	**1.7000e-003**		**0.0604**	**0.0604**		**0.0568**	**0.0568**	**0.0000**	**145.9315**	**145.9315**	**0.0352**	**0.0000**	**146.8117**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.3700e-003	0.2007	0.0534	5.3000e-004	0.0129	4.4000e-004	0.0133	3.7100e-003	4.3000e-004	4.1400e-003	0.0000	50.5884	50.5884	2.2000e-003	0.0000	50.6436
Worker	0.0293	0.0203	0.2176	6.9000e-004	0.0755	4.7000e-004	0.0759	0.0201	4.4000e-004	0.0205	0.0000	62.4568	62.4568	1.4200e-003	0.0000	62.4923
Total	**0.0357**	**0.2210**	**0.2710**	**1.2200e-003**	**0.0883**	**9.1000e-004**	**0.0892**	**0.0238**	**8.7000e-004**	**0.0246**	**0.0000**	**113.0453**	**113.0453**	**3.6200e-003**	**0.0000**	**113.1359**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1198	1.0982	1.0442	1.7000e-003		0.0604	0.0604		0.0568	0.0568	0.0000	145.9313	145.9313	0.0352	0.0000	146.8115
Total	**0.1198**	**1.0982**	**1.0442**	**1.7000e-003**		**0.0604**	**0.0604**		**0.0568**	**0.0568**	**0.0000**	**145.9313**	**145.9313**	**0.0352**	**0.0000**	**146.8115**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.3700e-003	0.2007	0.0534	5.3000e-004	0.0129	4.4000e-004	0.0133	3.7100e-003	4.3000e-004	4.1400e-003	0.0000	50.5884	50.5884	2.2000e-003	0.0000	50.6436
Worker	0.0293	0.0203	0.2176	6.9000e-004	0.0755	4.7000e-004	0.0759	0.0201	4.4000e-004	0.0205	0.0000	62.4568	62.4568	1.4200e-003	0.0000	62.4923
Total	**0.0357**	**0.2210**	**0.2710**	**1.2200e-003**	**0.0883**	**9.1000e-004**	**0.0892**	**0.0238**	**8.7000e-004**	**0.0246**	**0.0000**	**113.0453**	**113.0453**	**3.6200e-003**	**0.0000**	**113.1359**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0126**	**0.1292**	**0.1465**	**2.3000e-004**		**6.7800e-003**	**6.7800e-003**		**6.2400e-003**	**6.2400e-003**	**0.0000**	**20.0235**	**20.0235**	**6.4800e-003**	**0.0000**	**20.1854**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.4300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9848	0.9848	2.0000e-005	0.0000	0.9854
Total	**4.6000e-004**	**3.2000e-004**	**3.4300e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.2000e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9848**	**0.9848**	**2.0000e-005**	**0.0000**	**0.9854**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854

Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0126**	**0.1292**	**0.1465**	**2.3000e-004**		**6.7800e-003**	**6.7800e-003**		**6.2400e-003**	**6.2400e-003**	**0.0000**	**20.0235**	**20.0235**	**6.4800e-003**	**0.0000**	**20.1854**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.4300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9848	0.9848	2.0000e-005	0.0000	0.9854
Total	**4.6000e-004**	**3.2000e-004**	**3.4300e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.2000e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9848**	**0.9848**	**2.0000e-005**	**0.0000**	**0.9854**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1724					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.4100e-003	0.0592	0.0790	1.3000e-004		3.0800e-003	3.0800e-003		3.0600e-003	3.0600e-003	0.0000	10.9598	10.9598	1.5900e-003	0.0000	10.9997
Total	**1.1798**	**0.0592**	**0.0790**	**1.3000e-004**		**3.0800e-003**	**3.0800e-003**		**3.0600e-003**	**3.0600e-003**	**0.0000**	**10.9598**	**10.9598**	**1.5900e-003**	**0.0000**	**10.9997**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.2000e-004	6.4000e-004	6.8600e-003	2.0000e-005	2.3800e-003	1.0000e-005	2.3900e-003	6.3000e-004	1.0000e-005	6.5000e-004	0.0000	1.9696	1.9696	4.0000e-005	0.0000	1.9708
Total	**9.2000e-004**	**6.4000e-004**	**6.8600e-003**	**2.0000e-005**	**2.3800e-003**	**1.0000e-005**	**2.3900e-003**	**6.3000e-004**	**1.0000e-005**	**6.5000e-004**	**0.0000**	**1.9696**	**1.9696**	**4.0000e-005**	**0.0000**	**1.9708**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1724					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.4100e-003	0.0592	0.0790	1.3000e-004		3.0800e-003	3.0800e-003		3.0600e-003	3.0600e-003	0.0000	10.9598	10.9598	1.5900e-003	0.0000	10.9996
Total	**1.1798**	**0.0592**	**0.0790**	**1.3000e-004**		**3.0800e-003**	**3.0800e-003**		**3.0600e-003**	**3.0600e-003**	**0.0000**	**10.9598**	**10.9598**	**1.5900e-003**	**0.0000**	**10.9996**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.2000e-004	6.4000e-004	6.8600e-003	2.0000e-005	2.3800e-003	1.0000e-005	2.3900e-003	6.3000e-004	1.0000e-005	6.5000e-004	0.0000	1.9696	1.9696	4.0000e-005	0.0000	1.9708
Total	**9.2000e-004**	**6.4000e-004**	**6.8600e-003**	**2.0000e-005**	**2.3800e-003**	**1.0000e-005**	**2.3900e-003**	**6.3000e-004**	**1.0000e-005**	**6.5000e-004**	**0.0000**	**1.9696**	**1.9696**	**4.0000e-005**	**0.0000**	**1.9708**

3.8 Utilities - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.4100e-003	0.0339	0.0417	6.0000e-005		1.8800e-003	1.8800e-003		1.7300e-003	1.7300e-003	0.0000	5.4579	5.4579	1.7700e-003	0.0000	5.5020
Total	**3.4100e-003**	**0.0339**	**0.0417**	**6.0000e-005**		**1.8800e-003**	**1.8800e-003**		**1.7300e-003**	**1.7300e-003**	**0.0000**	**5.4579**	**5.4579**	**1.7700e-003**	**0.0000**	**5.5020**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.2000e-004	1.2500e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3401	0.3401	1.0000e-005	0.0000	0.3403
Total	**1.7000e-004**	**1.2000e-004**	**1.2500e-003**	**0.0000**	**4.0000e-004**	**0.0000**	**4.0000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.3401**	**0.3401**	**1.0000e-005**	**0.0000**	**0.3403**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.4100e-003	0.0339	0.0417	6.0000e-005		1.8800e-003	1.8800e-003		1.7300e-003	1.7300e-003	0.0000	5.4579	5.4579	1.7700e-003	0.0000	5.5020
Total	**3.4100e-003**	**0.0339**	**0.0417**	**6.0000e-005**		**1.8800e-003**	**1.8800e-003**		**1.7300e-003**	**1.7300e-003**	**0.0000**	**5.4579**	**5.4579**	**1.7700e-003**	**0.0000**	**5.5020**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.2000e-004	1.2500e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3401	0.3401	1.0000e-005	0.0000	0.3403
Total	**1.7000e-004**	**1.2000e-004**	**1.2500e-003**	**0.0000**	**4.0000e-004**	**0.0000**	**4.0000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.3401**	**0.3401**	**1.0000e-005**	**0.0000**	**0.3403**

Residences @ Shoreline Gateway - Reduced Density Alt Construction Block A Sequence

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	196.00	Space	1.76	78,400.00	0
Apartments Mid Rise	162.00	Dwelling Unit	4.26	162,000.00	463
Strip Mall	3.00	1000sqft	0.07	3,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Factor for 2020

Land Use -

Construction Phase - added trenching

Off-road Equipment - added aerial lifts

Off-road Equipment - trenching equip

Demolition -

Grading -

Energy Use -

Off-road Equipment -

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	PhaseStartDate	8/10/2022	7/13/2022
tblGrading	MaterialExported	0.00	1,000.00
tblGrading	MaterialImported	0.00	1,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1820	1.6712	1.5641	3.4500e-003	0.2418	0.0737	0.3156	0.1056	0.0688	0.1744	0.0000	306.3475	306.3475	0.0571	0.0000	307.7747
2023	1.3206	1.2286	1.4960	3.2500e-003	0.0926	0.0525	0.1451	0.0249	0.0494	0.0743	0.0000	288.3687	288.3687	0.0460	0.0000	289.5196
Maximum	**1.3206**	**1.6712**	**1.5641**	**3.4500e-003**	**0.2418**	**0.0737**	**0.3156**	**0.1056**	**0.0688**	**0.1744**	**0.0000**	**306.3475**	**306.3475**	**0.0571**	**0.0000**	**307.7747**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Year	tons/yr										MT/yr					
2022	0.1820	1.6712	1.5641	3.4500e-003	0.2418	0.0737	0.3156	0.1056	0.0688	0.1744	0.0000	306.3472	306.3472	0.0571	0.0000	307.7745
2023	1.3206	1.2286	1.4960	3.2500e-003	0.0926	0.0525	0.1451	0.0249	0.0494	0.0743	0.0000	288.3685	288.3685	0.0460	0.0000	289.5194
Maximum	**1.3206**	**1.6712**	**1.5641**	**3.4500e-003**	**0.2418**	**0.0737**	**0.3156**	**0.1056**	**0.0688**	**0.1744**	**0.0000**	**306.3472**	**306.3472**	**0.0571**	**0.0000**	**307.7745**

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**6-1-2022**	**8-31-2022**	0.9291	0.9291
2	**9-1-2022**	**11-30-2022**	0.6885	0.6885
3	**12-1-2022**	**2-28-2023**	0.6363	0.6363
4	**3-1-2023**	**5-31-2023**	0.6237	0.6237
5	**6-1-2023**	**8-31-2023**	1.5269	1.5269
		Highest	1.5269	1.5269

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2022	6/28/2022	5	20	
2	Site Preparation	Site Preparation	6/29/2022	7/12/2022	5	10	
3	Grading	Grading	7/13/2022	8/9/2022	5	20	
4	Utilities	Trenching	7/13/2022	8/9/2022	5	20	
5	Building Construction	Building Construction	8/10/2022	6/27/2023	5	230	
6	Paving	Paving	6/28/2023	7/25/2023	5	20	
7	Architectural Coating	Architectural Coating	7/26/2023	8/22/2023	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 1.76

Residential Indoor: 328,050; Residential Outdoor: 109,350; Non-Residential Indoor: 4,500; Non-Residential Outdoor: 1,500; Striped

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Aerial Lifts	3	6.00	63	0.31
Architectural Coating	Air Compressors	3	6.00	78	0.48
Utilities	Excavators	1	6.00	158	0.38
Utilities	Tractors/Loaders/Backhoes	1	6.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	69.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	250.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	151.00	31.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	6	30.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Utilities	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.4900e-003	0.0000	7.4900e-003	1.1300e-003	0.0000	1.1300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	**0.0264**	**0.2572**	**0.2059**	**3.9000e-004**	**7.4900e-003**	**0.0124**	**0.0199**	**1.1300e-003**	**0.0116**	**0.0127**	**0.0000**	**33.9902**	**33.9902**	**9.5500e-003**	**0.0000**	**34.2289**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Hauling	2.5000e-004	8.4700e-003	1.9800e-003	3.0000e-005	5.8000e-004	2.0000e-005	6.1000e-004	1.6000e-004	2.0000e-005	1.8000e-004	0.0000	2.5629	2.5629	1.2000e-004	0.0000	2.5658
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.9000e-004	3.1500e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9490	0.9490	2.0000e-005	0.0000	0.9495
Total	**6.8000e-004**	**8.7600e-003**	**5.1300e-003**	**4.0000e-005**	**1.7700e-003**	**3.0000e-005**	**1.8100e-003**	**4.8000e-004**	**3.0000e-005**	**5.0000e-004**	**0.0000**	**3.5120**	**3.5120**	**1.4000e-004**	**0.0000**	**3.5154**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.4900e-003	0.0000	7.4900e-003	1.1300e-003	0.0000	1.1300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	**0.0264**	**0.2572**	**0.2059**	**3.9000e-004**	**7.4900e-003**	**0.0124**	**0.0199**	**1.1300e-003**	**0.0116**	**0.0127**	**0.0000**	**33.9902**	**33.9902**	**9.5500e-003**	**0.0000**	**34.2289**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.5000e-004	8.4700e-003	1.9800e-003	3.0000e-005	5.8000e-004	2.0000e-005	6.1000e-004	1.6000e-004	2.0000e-005	1.8000e-004	0.0000	2.5629	2.5629	1.2000e-004	0.0000	2.5658
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.9000e-004	3.1500e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9490	0.9490	2.0000e-005	0.0000	0.9495

Total	**6.8000e-004**	**8.7600e-003**	**5.1300e-003**	**4.0000e-005**	**1.7700e-003**	**3.0000e-005**	**1.8100e-003**	**4.8000e-004**	**3.0000e-005**	**5.0000e-004**	**0.0000**	**3.5120**	**3.5120**	**1.4000e-004**	**0.0000**	**3.5154**

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1654	0.0985	1.9000e-004		8.0600e-003	8.0600e-003		7.4200e-003	7.4200e-003	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549
Total	**0.0159**	**0.1654**	**0.0985**	**1.9000e-004**	**0.0903**	**8.0600e-003**	**0.0984**	**0.0497**	**7.4200e-003**	**0.0571**	**0.0000**	**16.7197**	**16.7197**	**5.4100e-003**	**0.0000**	**16.8549**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	1.7000e-004	1.8900e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5694	0.5694	1.0000e-005	0.0000	0.5697
Total	**2.6000e-004**	**1.7000e-004**	**1.8900e-003**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.5694**	**0.5694**	**1.0000e-005**	**0.0000**	**0.5697**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1654	0.0985	1.9000e-004		8.0600e-003	8.0600e-003		7.4200e-003	7.4200e-003	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549
Total	**0.0159**	**0.1654**	**0.0985**	**1.9000e-004**	**0.0903**	**8.0600e-003**	**0.0984**	**0.0497**	**7.4200e-003**	**0.0571**	**0.0000**	**16.7197**	**16.7197**	**5.4100e-003**	**0.0000**	**16.8549**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	1.7000e-004	1.8900e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5694	0.5694	1.0000e-005	0.0000	0.5697
Total	**2.6000e-004**	**1.7000e-004**	**1.8900e-003**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.5694**	**0.5694**	**1.0000e-005**	**0.0000**	**0.5697**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Fugitive Dust					0.0656	0.0000	0.0656	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.2086	0.1527	3.0000e-004		9.4100e-003	9.4100e-003		8.6600e-003	8.6600e-003	0.0000	26.0548	26.0548	8.4300e-003	0.0000	26.2654
Total	**0.0195**	**0.2086**	**0.1527**	**3.0000e-004**	**0.0656**	**9.4100e-003**	**0.0751**	**0.0337**	**8.6600e-003**	**0.0424**	**0.0000**	**26.0548**	**26.0548**	**8.4300e-003**	**0.0000**	**26.2654**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.2000e-004	0.0307	7.1600e-003	1.0000e-004	2.1200e-003	9.0000e-005	2.2100e-003	5.8000e-004	9.0000e-005	6.7000e-004	0.0000	9.2860	9.2860	4.2000e-004	0.0000	9.2965
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.9000e-004	3.1500e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9490	0.9490	2.0000e-005	0.0000	0.9495
Total	**1.3500e-003**	**0.0310**	**0.0103**	**1.1000e-004**	**3.3100e-003**	**1.0000e-004**	**3.4100e-003**	**9.0000e-004**	**1.0000e-004**	**9.9000e-004**	**0.0000**	**10.2351**	**10.2351**	**4.4000e-004**	**0.0000**	**10.2460**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0656	0.0000	0.0656	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.2086	0.1527	3.0000e-004		9.4100e-003	9.4100e-003		8.6600e-003	8.6600e-003	0.0000	26.0547	26.0547	8.4300e-003	0.0000	26.2654
Total	**0.0195**	**0.2086**	**0.1527**	**3.0000e-004**	**0.0656**	**9.4100e-003**	**0.0751**	**0.0337**	**8.6600e-003**	**0.0424**	**0.0000**	**26.0547**	**26.0547**	**8.4300e-003**	**0.0000**	**26.2654**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.2000e-004	0.0307	7.1600e-003	1.0000e-004	2.1200e-003	9.0000e-005	2.2100e-003	5.8000e-004	9.0000e-005	6.7000e-004	0.0000	9.2860	9.2860	4.2000e-004	0.0000	9.2965
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.9000e-004	3.1500e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9490	0.9490	2.0000e-005	0.0000	0.9495
Total	**1.3500e-003**	**0.0310**	**0.0103**	**1.1000e-004**	**3.3100e-003**	**1.0000e-004**	**3.4100e-003**	**9.0000e-004**	**1.0000e-004**	**9.9000e-004**	**0.0000**	**10.2351**	**10.2351**	**4.4000e-004**	**0.0000**	**10.2460**

3.5 Utilities - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.7500e-003	0.0259	0.0412	6.0000e-005		1.3200e-003	1.3200e-003		1.2100e-003	1.2100e-003	0.0000	5.4516	5.4516	1.7600e-003	0.0000	5.4957
Total	**2.7500e-003**	**0.0259**	**0.0412**	**6.0000e-005**		**1.3200e-003**	**1.3200e-003**		**1.2100e-003**	**1.2100e-003**	**0.0000**	**5.4516**	**5.4516**	**1.7600e-003**	**0.0000**	**5.4957**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.0000e-004	1.0500e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3164	0.3164	1.0000e-005	0.0000	0.3165
Total	**1.4000e-004**	**1.0000e-004**	**1.0500e-003**	**0.0000**	**4.0000e-004**	**0.0000**	**4.0000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.3164**	**0.3164**	**1.0000e-005**	**0.0000**	**0.3165**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.7500e-003	0.0259	0.0412	6.0000e-005		1.3200e-003	1.3200e-003		1.2100e-003	1.2100e-003	0.0000	5.4516	5.4516	1.7600e-003	0.0000	5.4957
Total	**2.7500e-003**	**0.0259**	**0.0412**	**6.0000e-005**		**1.3200e-003**	**1.3200e-003**		**1.2100e-003**	**1.2100e-003**	**0.0000**	**5.4516**	**5.4516**	**1.7600e-003**	**0.0000**	**5.4957**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.0000e-004	1.0500e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3164	0.3164	1.0000e-005	0.0000	0.3165

Total	**1.4000e-004**	**1.0000e-004**	**1.0500e-003**	**0.0000**	**4.0000e-004**	**0.0000**	**4.0000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.3164**	**0.3164**	**1.0000e-005**	**0.0000**	**0.3165**

3.6 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0879	0.8042	0.8427	1.3900e-003		0.0417	0.0417		0.0392	0.0392	0.0000	119.3385	119.3385	0.0286	0.0000	120.0533
Total	**0.0879**	**0.8042**	**0.8427**	**1.3900e-003**		**0.0417**	**0.0417**		**0.0392**	**0.0392**	**0.0000**	**119.3385**	**119.3385**	**0.0286**	**0.0000**	**120.0533**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8600e-003	0.1551	0.0411	4.3000e-004	0.0105	3.2000e-004	0.0108	3.0400e-003	3.0000e-004	3.3400e-003	0.0000	40.9584	40.9584	1.7200e-003	0.0000	41.0014
Worker	0.0224	0.0149	0.1635	5.4000e-004	0.0617	3.8000e-004	0.0621	0.0164	3.5000e-004	0.0168	0.0000	49.2014	49.2014	1.0400e-003	0.0000	49.2275
Total	**0.0272**	**0.1700**	**0.2046**	**9.7000e-004**	**0.0722**	**7.0000e-004**	**0.0729**	**0.0194**	**6.5000e-004**	**0.0201**	**0.0000**	**90.1598**	**90.1598**	**2.7600e-003**	**0.0000**	**90.2289**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0879	0.8042	0.8427	1.3900e-003		0.0417	0.0417		0.0392	0.0392	0.0000	119.3384	119.3384	0.0286	0.0000	120.0531
Total	**0.0879**	**0.8042**	**0.8427**	**1.3900e-003**		**0.0417**	**0.0417**		**0.0392**	**0.0392**	**0.0000**	**119.3384**	**119.3384**	**0.0286**	**0.0000**	**120.0531**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8600e-003	0.1551	0.0411	4.3000e-004	0.0105	3.2000e-004	0.0108	3.0400e-003	3.0000e-004	3.3400e-003	0.0000	40.9584	40.9584	1.7200e-003	0.0000	41.0014
Worker	0.0224	0.0149	0.1635	5.4000e-004	0.0617	3.8000e-004	0.0621	0.0164	3.5000e-004	0.0168	0.0000	49.2014	49.2014	1.0400e-003	0.0000	49.2275
Total	**0.0272**	**0.1700**	**0.2046**	**9.7000e-004**	**0.0722**	**7.0000e-004**	**0.0729**	**0.0194**	**6.5000e-004**	**0.0201**	**0.0000**	**90.1598**	**90.1598**	**2.7600e-003**	**0.0000**	**90.2289**

3.6 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Off-Road	0.0999	0.9134	1.0315	1.7100e-003		0.0444	0.0444		0.0418	0.0418	0.0000	147.1960	147.1960	0.0350	0.0000	148.0714
Total	**0.0999**	**0.9134**	**1.0315**	**1.7100e-003**		**0.0444**	**0.0444**		**0.0418**	**0.0418**	**0.0000**	**147.1960**	**147.1960**	**0.0350**	**0.0000**	**148.0714**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.5100e-003	0.1449	0.0456	5.1000e-004	0.0130	1.7000e-004	0.0131	3.7400e-003	1.6000e-004	3.9100e-003	0.0000	49.0663	49.0663	1.8100e-003	0.0000	49.1114
Worker	0.0258	0.0165	0.1855	6.5000e-004	0.0761	4.6000e-004	0.0765	0.0202	4.2000e-004	0.0207	0.0000	58.3614	58.3614	1.1500e-003	0.0000	58.3902
Total	**0.0303**	**0.1614**	**0.2310**	**1.1600e-003**	**0.0890**	**6.3000e-004**	**0.0896**	**0.0240**	**5.8000e-004**	**0.0246**	**0.0000**	**107.4277**	**107.4277**	**2.9600e-003**	**0.0000**	**107.5016**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0999	0.9134	1.0315	1.7100e-003		0.0444	0.0444		0.0418	0.0418	0.0000	147.1958	147.1958	0.0350	0.0000	148.0712
Total	**0.0999**	**0.9134**	**1.0315**	**1.7100e-003**		**0.0444**	**0.0444**		**0.0418**	**0.0418**	**0.0000**	**147.1958**	**147.1958**	**0.0350**	**0.0000**	**148.0712**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.5100e-003	0.1449	0.0456	5.1000e-004	0.0130	1.7000e-004	0.0131	3.7400e-003	1.6000e-004	3.9100e-003	0.0000	49.0663	49.0663	1.8100e-003	0.0000	49.1114
Worker	0.0258	0.0165	0.1855	6.5000e-004	0.0761	4.6000e-004	0.0765	0.0202	4.2000e-004	0.0207	0.0000	58.3614	58.3614	1.1500e-003	0.0000	58.3902
Total	**0.0303**	**0.1614**	**0.2310**	**1.1600e-003**	**0.0890**	**6.3000e-004**	**0.0896**	**0.0240**	**5.8000e-004**	**0.0246**	**0.0000**	**107.4277**	**107.4277**	**2.9600e-003**	**0.0000**	**107.5016**

3.7 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0269	20.0269	6.4800e-003	0.0000	20.1888
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0103**	**0.1019**	**0.1458**	**2.3000e-004**		**5.1000e-003**	**5.1000e-003**		**4.6900e-003**	**4.6900e-003**	**0.0000**	**20.0269**	**20.0269**	**6.4800e-003**	**0.0000**	**20.1888**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.6000e-004	2.9000e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9130	0.9130	2.0000e-005	0.0000	0.9134
Total	**4.0000e-004**	**2.6000e-004**	**2.9000e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.2000e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9130**	**0.9130**	**2.0000e-005**	**0.0000**	**0.9134**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0268	20.0268	6.4800e-003	0.0000	20.1888
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0103**	**0.1019**	**0.1458**	**2.3000e-004**		**5.1000e-003**	**5.1000e-003**		**4.6900e-003**	**4.6900e-003**	**0.0000**	**20.0268**	**20.0268**	**6.4800e-003**	**0.0000**	**20.1888**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.6000e-004	2.9000e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9130	0.9130	2.0000e-005	0.0000	0.9134

Total	**4.0000e-004**	**2.6000e-004**	**2.9000e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.2000e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9130**	**0.9130**	**2.0000e-005**	**0.0000**	**0.9134**

3.8 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1724					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5300e-003	0.0511	0.0789	1.3000e-004		2.3300e-003	2.3300e-003		2.3200e-003	2.3200e-003	0.0000	10.9791	10.9791	1.5300e-003	0.0000	11.0174
Total	**1.1789**	**0.0511**	**0.0789**	**1.3000e-004**		**2.3300e-003**	**2.3300e-003**		**2.3200e-003**	**2.3200e-003**	**0.0000**	**10.9791**	**10.9791**	**1.5300e-003**	**0.0000**	**11.0174**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.1000e-004	5.2000e-004	5.8000e-003	2.0000e-005	2.3800e-003	1.0000e-005	2.3900e-003	6.3000e-004	1.0000e-005	6.5000e-004	0.0000	1.8260	1.8260	4.0000e-005	0.0000	1.8269
Total	**8.1000e-004**	**5.2000e-004**	**5.8000e-003**	**2.0000e-005**	**2.3800e-003**	**1.0000e-005**	**2.3900e-003**	**6.3000e-004**	**1.0000e-005**	**6.5000e-004**	**0.0000**	**1.8260**	**1.8260**	**4.0000e-005**	**0.0000**	**1.8269**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1724					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5300e-003	0.0511	0.0789	1.3000e-004		2.3300e-003	2.3300e-003		2.3200e-003	2.3200e-003	0.0000	10.9791	10.9791	1.5300e-003	0.0000	11.0174
Total	**1.1789**	**0.0511**	**0.0789**	**1.3000e-004**		**2.3300e-003**	**2.3300e-003**		**2.3200e-003**	**2.3200e-003**	**0.0000**	**10.9791**	**10.9791**	**1.5300e-003**	**0.0000**	**11.0174**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.1000e-004	5.2000e-004	5.8000e-003	2.0000e-005	2.3800e-003	1.0000e-005	2.3900e-003	6.3000e-004	1.0000e-005	6.5000e-004	0.0000	1.8260	1.8260	4.0000e-005	0.0000	1.8269
Total	**8.1000e-004**	**5.2000e-004**	**5.8000e-003**	**2.0000e-005**	**2.3800e-003**	**1.0000e-005**	**2.3900e-003**	**6.3000e-004**	**1.0000e-005**	**6.5000e-004**	**0.0000**	**1.8260**	**1.8260**	**4.0000e-005**	**0.0000**	**1.8269**

Residences @ Shoreline Gateway - Reduced Density Alt Construction Block B

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	103.00	Space	0.93	41,200.00	0
Condo/Townhouse High Rise	80.00	Dwelling Unit	1.25	80,000.00	229
Unenclosed Parking with Elevator	130.82	1000sqft	3.00	130,820.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Factor for 2020

Land Use -

Construction Phase - added trenching

Off-road Equipment - added aerial lifts

Off-road Equipment - trenching equip

Grading -

Demolition -

Energy Use -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
tblGrading	MaterialExported	0.00	1,000.00
tblGrading	MaterialImported	0.00	3,240.00
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.2259	2.1771	1.6627	3.6800e-003	0.2500	0.1021	0.3520	0.1066	0.0953	0.2019	0.0000	328.5586	328.5586	0.0593	0.0000	330.0412
2021	0.7729	1.5445	1.5303	3.3000e-003	0.0835	0.0712	0.1548	0.0226	0.0670	0.0896	0.0000	293.7571	293.7571	0.0472	0.0000	294.9369

Maximum	**0.7729**	**2.1771**	**1.6627**	**3.6800e-003**	**0.2500**	**0.1021**	**0.3520**	**0.1066**	**0.0953**	**0.2019**	**0.0000**	**328.5586**	**328.5586**	**0.0593**	**0.0000**	**330.0412**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.2259	2.1771	1.6627	3.6800e-003	0.2500	0.1021	0.3520	0.1066	0.0953	0.2019	0.0000	328.5584	328.5584	0.0593	0.0000	330.0410
2021	0.7729	1.5445	1.5303	3.3000e-003	0.0835	0.0712	0.1548	0.0226	0.0670	0.0896	0.0000	293.7569	293.7569	0.0472	0.0000	294.9367
Maximum	**0.7729**	**2.1771**	**1.6627**	**3.6800e-003**	**0.2500**	**0.1021**	**0.3520**	**0.1066**	**0.0953**	**0.2019**	**0.0000**	**328.5584**	**328.5584**	**0.0593**	**0.0000**	**330.0410**

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**6-1-2020**	**8-31-2020**	1.2255	1.2255
2	**9-1-2020**	**11-30-2020**	0.8592	0.8592
3	**12-1-2020**	**2-28-2021**	0.7990	0.7990
4	**3-1-2021**	**5-31-2021**	0.7860	0.7860
5	**6-1-2021**	**8-31-2021**	1.0227	1.0227
		Highest	1.2255	1.2255

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description

1	Demolition	Demolition	6/1/2020	6/26/2020	5	20	
2	Site Preparation	Site Preparation	6/27/2020	7/10/2020	5	10	
3	Grading	Grading	7/11/2020	8/7/2020	5	20	
4	Building Construction	Building Construction	8/8/2020	6/25/2021	5	230	
5	Paving	Paving	6/26/2021	7/23/2021	5	20	
6	Architectural Coating	Architectural Coating	7/24/2021	8/20/2021	5	20	
7	Utilities	Trenching	7/11/2020	8/7/2020	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 3.93

Residential Indoor: 162,000; Residential Outdoor: 54,000; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking

OffRoad Equipment

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

Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Aerial Lifts	3	6.00	63	0.31
Utilities	Excavators	1	6.00	158	0.38
Utilities	Tractors/Loaders/Backhoes	1	6.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	168.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	530.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	130.00	37.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	6	26.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Utilities	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0182	0.0000	0.0182	2.7500e-003	0.0000	2.7500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2386

Total	**0.0331**	**0.3320**	**0.2175**	**3.9000e-004**	**0.0182**	**0.0166**	**0.0348**	**2.7500e-003**	**0.0154**	**0.0182**	**0.0000**	**33.9986**	**33.9986**	**9.6000e-003**	**0.0000**	**34.2386**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.0000e-004	0.0244	4.9900e-003	7.0000e-005	1.4200e-003	8.0000e-005	1.5000e-003	3.9000e-004	8.0000e-005	4.7000e-004	0.0000	6.4068	6.4068	2.9000e-004	0.0000	6.4141
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.6000e-004	3.7500e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0202	1.0202	3.0000e-005	0.0000	1.0209
Total	**1.2000e-003**	**0.0247**	**8.7400e-003**	**8.0000e-005**	**2.6100e-003**	**9.0000e-005**	**2.7000e-003**	**7.1000e-004**	**9.0000e-005**	**7.9000e-004**	**0.0000**	**7.4270**	**7.4270**	**3.2000e-004**	**0.0000**	**7.4349**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0182	0.0000	0.0182	2.7500e-003	0.0000	2.7500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2385
Total	**0.0331**	**0.3320**	**0.2175**	**3.9000e-004**	**0.0182**	**0.0166**	**0.0348**	**2.7500e-003**	**0.0154**	**0.0182**	**0.0000**	**33.9986**	**33.9986**	**9.6000e-003**	**0.0000**	**34.2385**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.0000e-004	0.0244	4.9900e-003	7.0000e-005	1.4200e-003	8.0000e-005	1.5000e-003	3.9000e-004	8.0000e-005	4.7000e-004	0.0000	6.4068	6.4068	2.9000e-004	0.0000	6.4141
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.6000e-004	3.7500e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0202	1.0202	3.0000e-005	0.0000	1.0209
Total	**1.2000e-003**	**0.0247**	**8.7400e-003**	**8.0000e-005**	**2.6100e-003**	**9.0000e-005**	**2.7000e-003**	**7.1000e-004**	**9.0000e-005**	**7.9000e-004**	**0.0000**	**7.4270**	**7.4270**	**3.2000e-004**	**0.0000**	**7.4349**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	**0.0204**	**0.2121**	**0.1076**	**1.9000e-004**	**0.0903**	**0.0110**	**0.1013**	**0.0497**	**0.0101**	**0.0598**	**0.0000**	**16.7153**	**16.7153**	**5.4100e-003**	**0.0000**	**16.8505**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.1000e-004	2.2500e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6121	0.6121	2.0000e-005	0.0000	0.6125
Total	**3.0000e-004**	**2.1000e-004**	**2.2500e-003**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.6121**	**0.6121**	**2.0000e-005**	**0.0000**	**0.6125**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	**0.0204**	**0.2121**	**0.1076**	**1.9000e-004**	**0.0903**	**0.0110**	**0.1013**	**0.0497**	**0.0101**	**0.0598**	**0.0000**	**16.7153**	**16.7153**	**5.4100e-003**	**0.0000**	**16.8505**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.1000e-004	2.2500e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6121	0.6121	2.0000e-005	0.0000	0.6125
Total	**3.0000e-004**	**2.1000e-004**	**2.2500e-003**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.6121**	**0.6121**	**2.0000e-005**	**0.0000**	**0.6125**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0658	0.0000	0.0658	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0243	0.2639	0.1605	3.0000e-004		0.0127	0.0127		0.0117	0.0117	0.0000	26.0588	26.0588	8.4300e-003	0.0000	26.2694
Total	**0.0243**	**0.2639**	**0.1605**	**3.0000e-004**	**0.0658**	**0.0127**	**0.0785**	**0.0337**	**0.0117**	**0.0454**	**0.0000**	**26.0588**	**26.0588**	**8.4300e-003**	**0.0000**	**26.2694**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.2000e-003	0.0769	0.0158	2.1000e-004	4.4900e-003	2.5000e-004	4.7400e-003	1.2400e-003	2.4000e-004	1.4700e-003	0.0000	20.2118	20.2118	9.2000e-004	0.0000	20.2349
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.6000e-004	3.7500e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0202	1.0202	3.0000e-005	0.0000	1.0209
Total	**2.7000e-003**	**0.0773**	**0.0195**	**2.2000e-004**	**5.6800e-003**	**2.6000e-004**	**5.9400e-003**	**1.5600e-003**	**2.5000e-004**	**1.7900e-003**	**0.0000**	**21.2320**	**21.2320**	**9.5000e-004**	**0.0000**	**21.2557**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0658	0.0000	0.0658	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0243	0.2639	0.1605	3.0000e-004		0.0127	0.0127		0.0117	0.0117	0.0000	26.0587	26.0587	8.4300e-003	0.0000	26.2694
Total	**0.0243**	**0.2639**	**0.1605**	**3.0000e-004**	**0.0658**	**0.0127**	**0.0785**	**0.0337**	**0.0117**	**0.0454**	**0.0000**	**26.0587**	**26.0587**	**8.4300e-003**	**0.0000**	**26.2694**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.2000e-003	0.0769	0.0158	2.1000e-004	4.4900e-003	2.5000e-004	4.7400e-003	1.2400e-003	2.4000e-004	1.4700e-003	0.0000	20.2118	20.2118	9.2000e-004	0.0000	20.2349
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.6000e-004	3.7500e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0202	1.0202	3.0000e-005	0.0000	1.0209
Total	**2.7000e-003**	**0.0773**	**0.0195**	**2.2000e-004**	**5.6800e-003**	**2.6000e-004**	**5.9400e-003**	**1.5600e-003**	**2.5000e-004**	**1.7900e-003**	**0.0000**	**21.2320**	**21.2320**	**9.5000e-004**	**0.0000**	**21.2557**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1102	0.9977	0.8761	1.4000e-003		0.0581	0.0581		0.0546	0.0546	0.0000	120.4372	120.4372	0.0294	0.0000	121.1718

Total	**0.1102**	**0.9977**	**0.8761**	**1.4000e-003**		**0.0581**	**0.0581**		**0.0546**	**0.0546**	**0.0000**	**120.4372**	**120.4372**	**0.0294**	**0.0000**	**121.1718**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.6200e-003	0.2191	0.0584	5.2000e-004	0.0127	1.0900e-003	0.0137	3.6600e-003	1.0400e-003	4.7000e-003	0.0000	50.3016	50.3016	2.3100e-003	0.0000	50.3593
Worker	0.0225	0.0161	0.1692	5.1000e-004	0.0536	3.5000e-004	0.0540	0.0143	3.2000e-004	0.0146	0.0000	45.9781	45.9781	1.1300e-003	0.0000	46.0063
Total	**0.0301**	**0.2352**	**0.2275**	**1.0300e-003**	**0.0663**	**1.4400e-003**	**0.0677**	**0.0179**	**1.3600e-003**	**0.0193**	**0.0000**	**96.2797**	**96.2797**	**3.4400e-003**	**0.0000**	**96.3656**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1102	0.9977	0.8761	1.4000e-003		0.0581	0.0581		0.0546	0.0546	0.0000	120.4371	120.4371	0.0294	0.0000	121.1716
Total	**0.1102**	**0.9977**	**0.8761**	**1.4000e-003**		**0.0581**	**0.0581**		**0.0546**	**0.0546**	**0.0000**	**120.4371**	**120.4371**	**0.0294**	**0.0000**	**121.1716**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.6200e-003	0.2191	0.0584	5.2000e-004	0.0127	1.0900e-003	0.0137	3.6600e-003	1.0400e-003	4.7000e-003	0.0000	50.3016	50.3016	2.3100e-003	0.0000	50.3593
Worker	0.0225	0.0161	0.1692	5.1000e-004	0.0536	3.5000e-004	0.0540	0.0143	3.2000e-004	0.0146	0.0000	45.9781	45.9781	1.1300e-003	0.0000	46.0063
Total	**0.0301**	**0.2352**	**0.2275**	**1.0300e-003**	**0.0663**	**1.4400e-003**	**0.0677**	**0.0179**	**1.3600e-003**	**0.0193**	**0.0000**	**96.2797**	**96.2797**	**3.4400e-003**	**0.0000**	**96.3656**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1198	1.0982	1.0442	1.7000e-003		0.0604	0.0604		0.0568	0.0568	0.0000	145.9315	145.9315	0.0352	0.0000	146.8117
Total	**0.1198**	**1.0982**	**1.0442**	**1.7000e-003**		**0.0604**	**0.0604**		**0.0568**	**0.0568**	**0.0000**	**145.9315**	**145.9315**	**0.0352**	**0.0000**	**146.8117**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.6000e-003	0.2395	0.0638	6.3000e-004	0.0153	5.3000e-004	0.0159	4.4300e-003	5.1000e-004	4.9400e-003	0.0000	60.3798	60.3798	2.6300e-003	0.0000	60.4455
Worker	0.0252	0.0175	0.1874	5.9000e-004	0.0650	4.1000e-004	0.0654	0.0173	3.8000e-004	0.0177	0.0000	53.7708	53.7708	1.2200e-003	0.0000	53.8014
Total	**0.0328**	**0.2570**	**0.2511**	**1.2200e-003**	**0.0803**	**9.4000e-004**	**0.0812**	**0.0217**	**8.9000e-004**	**0.0226**	**0.0000**	**114.1505**	**114.1505**	**3.8500e-003**	**0.0000**	**114.2469**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1198	1.0982	1.0442	1.7000e-003		0.0604	0.0604		0.0568	0.0568	0.0000	145.9313	145.9313	0.0352	0.0000	146.8115
Total	**0.1198**	**1.0982**	**1.0442**	**1.7000e-003**		**0.0604**	**0.0604**		**0.0568**	**0.0568**	**0.0000**	**145.9313**	**145.9313**	**0.0352**	**0.0000**	**146.8115**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.6000e-003	0.2395	0.0638	6.3000e-004	0.0153	5.3000e-004	0.0159	4.4300e-003	5.1000e-004	4.9400e-003	0.0000	60.3798	60.3798	2.6300e-003	0.0000	60.4455
Worker	0.0252	0.0175	0.1874	5.9000e-004	0.0650	4.1000e-004	0.0654	0.0173	3.8000e-004	0.0177	0.0000	53.7708	53.7708	1.2200e-003	0.0000	53.8014
Total	**0.0328**	**0.2570**	**0.2511**	**1.2200e-003**	**0.0803**	**9.4000e-004**	**0.0812**	**0.0217**	**8.9000e-004**	**0.0226**	**0.0000**	**114.1505**	**114.1505**	**3.8500e-003**	**0.0000**	**114.2469**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0126**	**0.1292**	**0.1465**	**2.3000e-004**		**6.7800e-003**	**6.7800e-003**		**6.2400e-003**	**6.2400e-003**	**0.0000**	**20.0235**	**20.0235**	**6.4800e-003**	**0.0000**	**20.1854**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.4300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9848	0.9848	2.0000e-005	0.0000	0.9854
Total	**4.6000e-004**	**3.2000e-004**	**3.4300e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.2000e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9848**	**0.9848**	**2.0000e-005**	**0.0000**	**0.9854**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0126**	**0.1292**	**0.1465**	**2.3000e-004**		**6.7800e-003**	**6.7800e-003**		**6.2400e-003**	**6.2400e-003**	**0.0000**	**20.0235**	**20.0235**	**6.4800e-003**	**0.0000**	**20.1854**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.4300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9848	0.9848	2.0000e-005	0.0000	0.9854
Total	**4.6000e-004**	**3.2000e-004**	**3.4300e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.2000e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9848**	**0.9848**	**2.0000e-005**	**0.0000**	**0.9854**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5990					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	7.4100e-003	0.0592	0.0790	1.3000e-004		3.0800e-003	3.0800e-003		3.0600e-003	3.0600e-003	0.0000	10.9598	10.9598	1.5900e-003	0.0000	10.9997
Total	**0.6064**	**0.0592**	**0.0790**	**1.3000e-004**		**3.0800e-003**	**3.0800e-003**		**3.0600e-003**	**3.0600e-003**	**0.0000**	**10.9598**	**10.9598**	**1.5900e-003**	**0.0000**	**10.9997**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-004	5.5000e-004	5.9500e-003	2.0000e-005	2.0600e-003	1.0000e-005	2.0800e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.7070	1.7070	4.0000e-005	0.0000	1.7080
Total	**8.0000e-004**	**5.5000e-004**	**5.9500e-003**	**2.0000e-005**	**2.0600e-003**	**1.0000e-005**	**2.0800e-003**	**5.5000e-004**	**1.0000e-005**	**5.6000e-004**	**0.0000**	**1.7070**	**1.7070**	**4.0000e-005**	**0.0000**	**1.7080**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5990					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.4100e-003	0.0592	0.0790	1.3000e-004		3.0800e-003	3.0800e-003		3.0600e-003	3.0600e-003	0.0000	10.9598	10.9598	1.5900e-003	0.0000	10.9996
Total	**0.6064**	**0.0592**	**0.0790**	**1.3000e-004**		**3.0800e-003**	**3.0800e-003**		**3.0600e-003**	**3.0600e-003**	**0.0000**	**10.9598**	**10.9598**	**1.5900e-003**	**0.0000**	**10.9996**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-004	5.5000e-004	5.9500e-003	2.0000e-005	2.0600e-003	1.0000e-005	2.0800e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.7070	1.7070	4.0000e-005	0.0000	1.7080
Total	**8.0000e-004**	**5.5000e-004**	**5.9500e-003**	**2.0000e-005**	**2.0600e-003**	**1.0000e-005**	**2.0800e-003**	**5.5000e-004**	**1.0000e-005**	**5.6000e-004**	**0.0000**	**1.7070**	**1.7070**	**4.0000e-005**	**0.0000**	**1.7080**

3.8 Utilities - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.4100e-003	0.0339	0.0417	6.0000e-005		1.8800e-003	1.8800e-003		1.7300e-003	1.7300e-003	0.0000	5.4579	5.4579	1.7700e-003	0.0000	5.5020
Total	**3.4100e-003**	**0.0339**	**0.0417**	**6.0000e-005**		**1.8800e-003**	**1.8800e-003**		**1.7300e-003**	**1.7300e-003**	**0.0000**	**5.4579**	**5.4579**	**1.7700e-003**	**0.0000**	**5.5020**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.2000e-004	1.2500e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3401	0.3401	1.0000e-005	0.0000	0.3403
Total	**1.7000e-004**	**1.2000e-004**	**1.2500e-003**	**0.0000**	**4.0000e-004**	**0.0000**	**4.0000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.3401**	**0.3401**	**1.0000e-005**	**0.0000**	**0.3403**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.4100e-003	0.0339	0.0417	6.0000e-005		1.8800e-003	1.8800e-003		1.7300e-003	1.7300e-003	0.0000	5.4579	5.4579	1.7700e-003	0.0000	5.5020
Total	**3.4100e-003**	**0.0339**	**0.0417**	**6.0000e-005**		**1.8800e-003**	**1.8800e-003**		**1.7300e-003**	**1.7300e-003**	**0.0000**	**5.4579**	**5.4579**	**1.7700e-003**	**0.0000**	**5.5020**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.2000e-004	1.2500e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3401	0.3401	1.0000e-005	0.0000	0.3403
Total	**1.7000e-004**	**1.2000e-004**	**1.2500e-003**	**0.0000**	**4.0000e-004**	**0.0000**	**4.0000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.3401**	**0.3401**	**1.0000e-005**	**0.0000**	**0.3403**

Residences @ Shoreline Gateway - Operation - Santa Clara County, Annual

Residences @ Shoreline Gateway - Reduced Density Alt Operation

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	196.00	Space	0.50	79,703.00	0
Enclosed Parking with Elevator	103.00	Space	0.50	41,561.00	0
Parking Lot	52.00	Space	1.22	53,324.00	0
Unenclosed Parking with Elevator	359.00	Space	0.55	130,820.00	0
Apartments Mid Rise	162.00	Dwelling Unit	2.00	220,694.00	326
Condo/Townhouse High Rise	80.00	Dwelling Unit	1.00	121,937.00	212
Strip Mall	3.00	1000sqft	0.07	3,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Per PG&E emissions factors for 2020

Land Use - 5.84 development area lot acerage, bldg sq ft per plans, population based on 2.4 pph and 7.5% vacancy

Construction Phase - Operation only

Off-road Equipment - Operation only

Trips and VMT - Operation only

Grading - Operation only

Vehicle Trips - Trip rates adjusted per Hexagon TIA

Woodstoves - No woodstoves. 1 outdoor gas fireplace assumed for Block B amenities.

Energy Use -

Water And Wastewater - Residential bldg water use adjusted per Utility Impact Study, sewer treated at Palo Alto RWC Plant

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	PhaseEndDate	6/14/2019	5/20/2019
tblFireplaces	NumberGas	24.30	0.00
tblFireplaces	NumberGas	12.00	1.00
tblFireplaces	NumberNoFireplace	6.48	162.00
tblFireplaces	NumberNoFireplace	3.20	79.00
tblFireplaces	NumberWood	27.54	0.00
tblFireplaces	NumberWood	13.60	0.00
tblLandUse	LandUseSquareFeet	78,400.00	79,703.00
tblLandUse	LandUseSquareFeet	41,200.00	41,561.00
tblLandUse	LandUseSquareFeet	20,800.00	53,324.00
tblLandUse	LandUseSquareFeet	143,600.00	130,820.00
tblLandUse	LandUseSquareFeet	162,000.00	220,694.00
tblLandUse	LandUseSquareFeet	80,000.00	121,937.00
tblLandUse	LotAcreage	1.76	0.50
tblLandUse	LotAcreage	0.93	0.50
tblLandUse	LotAcreage	0.47	1.22
tblLandUse	LotAcreage	3.23	0.55
tblLandUse	LotAcreage	4.26	2.00
tblLandUse	LotAcreage	1.25	1.00
tblLandUse	Population	463.00	326.00
tblLandUse	Population	229.00	212.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblVehicleTrips	ST_TR	6.39	3.69
tblVehicleTrips	ST_TR	4.31	3.96
tblVehicleTrips	ST_TR	42.04	460.32
tblVehicleTrips	SU_TR	5.86	3.38
tblVehicleTrips	SU_TR	3.43	3.15
tblVehicleTrips	SU_TR	20.43	223.70
tblVehicleTrips	WD_TR	6.65	3.84
tblVehicleTrips	WD_TR	4.18	3.84
tblVehicleTrips	WD_TR	44.32	485.28
tblWater	IndoorWaterUseRate	10,554,952.15	5,913,000.00
tblWater	IndoorWaterUseRate	5,212,322.05	2,920,000.00
tblWoodstoves	NumberCatalytic	3.24	0.00
tblWoodstoves	NumberCatalytic	1.60	0.00
tblWoodstoves	NumberNoncatalytic	3.24	0.00
tblWoodstoves	NumberNoncatalytic	1.60	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

Quarter	**Start Date**	**End Date**	**Maximum Unmitigated ROG + NOX (tons/quarter)**	**Maximum Mitigated ROG + NOX (tons/quarter)**
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.6739	0.0210	1.8074	1.0000e-004		9.9600e-003	9.9600e-003		9.9600e-003	9.9600e-003	0.0000	3.0728	3.0728	2.8800e-003	0.0000	3.1455

Energy	0.0113	0.0967	0.0413	6.2000e-004		7.8200e-003	7.8200e-003		7.8200e-003	7.8200e-003	0.0000	379.6325	379.6325	0.0289	7.5900e-003	382.6174
Mobile	0.5231	2.0830	5.5924	0.0176	1.5437	0.0154	1.5592	0.4132	0.0144	0.4277	0.0000	1,605.9266	1,605.9266	0.0589	0.0000	1,607.3994
Waste						0.0000	0.0000		0.0000	0.0000	23.2364	0.0000	23.2364	1.3732	0.0000	57.5671
Water						0.0000	0.0000		0.0000	0.0000	2.8728	11.0844	13.9572	0.2962	7.2000e-003	23.5061
Total	**2.2084**	**2.2007**	**7.4411**	**0.0183**	**1.5437**	**0.0332**	**1.5769**	**0.4132**	**0.0322**	**0.4454**	**26.1092**	**1,999.7163**	**2,025.8255**	**1.7601**	**0.0148**	**2,074.2355**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.6739	0.0210	1.8074	1.0000e-004		9.9600e-003	9.9600e-003		9.9600e-003	9.9600e-003	0.0000	3.0728	3.0728	2.8800e-003	0.0000	3.1455
Energy	0.0113	0.0967	0.0413	6.2000e-004		7.8200e-003	7.8200e-003		7.8200e-003	7.8200e-003	0.0000	379.6325	379.6325	0.0289	7.5900e-003	382.6174
Mobile	0.5231	2.0830	5.5924	0.0176	1.5437	0.0154	1.5592	0.4132	0.0144	0.4277	0.0000	1,605.9266	1,605.9266	0.0589	0.0000	1,607.3994
Waste						0.0000	0.0000		0.0000	0.0000	23.2364	0.0000	23.2364	1.3732	0.0000	57.5671
Water						0.0000	0.0000		0.0000	0.0000	2.8728	11.0844	13.9572	0.2962	7.2000e-003	23.5061
Total	**2.2084**	**2.2007**	**7.4411**	**0.0183**	**1.5437**	**0.0332**	**1.5769**	**0.4132**	**0.0322**	**0.4454**	**26.1092**	**1,999.7163**	**2,025.8255**	**1.7601**	**0.0148**	**2,074.2355**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/20/2019	5/20/2019	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.77

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.5231	2.0830	5.5924	0.0176	1.5437	0.0154	1.5592	0.4132	0.0144	0.4277	0.0000	1,605.9266	1,605.9266	0.0589	0.0000	1,607.3994
Unmitigated	0.5231	2.0830	5.5924	0.0176	1.5437	0.0154	1.5592	0.4132	0.0144	0.4277	0.0000	1,605.9266	1,605.9266	0.0589	0.0000	1,607.3994

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT

Apartments Mid Rise	622.02	597.70	548.13	1,404,218	1,404,218
Condo/Townhouse High Rise	307.13	316.68	252.02	694,312	694,312
Enclosed Parking with Elevator	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	1,455.85	1,380.96	671.10	2,052,934	2,052,934
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	2,385.00	2,295.34	1,471.24	4,151,464	4,151,464

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Condo/Townhouse High Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15
Unenclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.607897	0.037434	0.184004	0.107261	0.014919	0.004991	0.012447	0.020659	0.002115	0.001554	0.005334	0.000623	0.000761
Condo/Townhouse High Rise	0.607897	0.037434	0.184004	0.107261	0.014919	0.004991	0.012447	0.020659	0.002115	0.001554	0.005334	0.000623	0.000761
Enclosed Parking with Elevator	0.607897	0.037434	0.184004	0.107261	0.014919	0.004991	0.012447	0.020659	0.002115	0.001554	0.005334	0.000623	0.000761
Parking Lot	0.607897	0.037434	0.184004	0.107261	0.014919	0.004991	0.012447	0.020659	0.002115	0.001554	0.005334	0.000623	0.000761
Strip Mall	0.607897	0.037434	0.184004	0.107261	0.014919	0.004991	0.012447	0.020659	0.002115	0.001554	0.005334	0.000623	0.000761
Unenclosed Parking with Elevator	0.607897	0.037434	0.184004	0.107261	0.014919	0.004991	0.012447	0.020659	0.002115	0.001554	0.005334	0.000623	0.000761

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	267.6829	267.6829	0.0268	5.5400e-003	270.0025
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	267.6829	267.6829	0.0268	5.5400e-003	270.0025
NaturalGas Mitigated	0.0113	0.0967	0.0413	6.2000e-004		7.8200e-003	7.8200e-003		7.8200e-003	7.8200e-003	0.0000	111.9496	111.9496	2.1500e-003	2.0500e-003	112.6149
NaturalGas Unmitigated	0.0113	0.0967	0.0413	6.2000e-004		7.8200e-003	7.8200e-003		7.8200e-003	7.8200e-003	0.0000	111.9496	111.9496	2.1500e-003	2.0500e-003	112.6149

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.39959e+006	7.5500e-003	0.0645	0.0274	4.1000e-004		5.2100e-003	5.2100e-003		5.2100e-003	5.2100e-003	0.0000	74.6875	74.6875	1.4300e-003	1.3700e-003	75.1313
Condo/Townhouse High Rise	691156	3.7300e-003	0.0319	0.0136	2.0000e-004		2.5700e-003	2.5700e-003		2.5700e-003	2.5700e-003	0.0000	36.8827	36.8827	7.1000e-004	6.8000e-004	37.1019
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	7110	4.0000e-005	3.5000e-004	2.9000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.3794	0.3794	1.0000e-005	1.0000e-005	0.3817
Unenclosed Parking with	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0113**	**0.0967**	**0.0413**	**6.1000e-004**		**7.8100e-003**	**7.8100e-003**		**7.8100e-003**	**7.8100e-003**	**0.0000**	**111.9496**	**111.9496**	**2.1500e-003**	**2.0600e-003**	**112.6149**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.39959e+006	7.5500e-003	0.0645	0.0274	4.1000e-004		5.2100e-003	5.2100e-003		5.2100e-003	5.2100e-003	0.0000	74.6875	74.6875	1.4300e-003	1.3700e-003	75.1313
Condo/Townhouse High Rise	691156	3.7300e-003	0.0319	0.0136	2.0000e-004		2.5700e-003	2.5700e-003		2.5700e-003	2.5700e-003	0.0000	36.8827	36.8827	7.1000e-004	6.8000e-004	37.1019
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	7110	4.0000e-005	3.5000e-004	2.9000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.3794	0.3794	1.0000e-005	1.0000e-005	0.3817
Unenclosed Parking with	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0113**	**0.0967**	**0.0413**	**6.1000e-004**		**7.8100e-003**	**7.8100e-003**		**7.8100e-003**	**7.8100e-003**	**0.0000**	**111.9496**	**111.9496**	**2.1500e-003**	**2.0600e-003**	**112.6149**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	668793	87.9742	8.8000e-003	1.8200e-003	88.7365
Condo/Townhouse High Rise	351041	46.1765	4.6200e-003	9.6000e-004	46.5767
Enclosed Parking with Elevator	243547	32.0367	3.2000e-003	6.6000e-004	32.3143
Enclosed Parking with Elevator	467060	61.4379	6.1400e-003	1.2700e-003	61.9702
Parking Lot	18663.4	2.4550	2.5000e-004	5.0000e-005	2.4763
Strip Mall	32070	4.2186	4.2000e-004	9.0000e-005	4.2551

Unenclosed Parking with Elevator	253791	33.3841	3.3400e-003	6.9000e-004	33.6734
Total		**267.6829**	**0.0268**	**5.5400e-003**	**270.0025**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	668793	87.9742	8.8000e-003	1.8200e-003	88.7365
Condo/Townhouse High Rise	351041	46.1765	4.6200e-003	9.6000e-004	46.5767
Enclosed Parking with Elevator	243547	32.0367	3.2000e-003	6.6000e-004	32.3143
Enclosed Parking with Elevator	467060	61.4379	6.1400e-003	1.2700e-003	61.9702
Parking Lot	18663.4	2.4550	2.5000e-004	5.0000e-005	2.4763
Strip Mall	32070	4.2186	4.2000e-004	9.0000e-005	4.2551
Unenclosed Parking with Elevator	253791	33.3841	3.3400e-003	6.9000e-004	33.6734
Total		**267.6829**	**0.0268**	**5.5400e-003**	**270.0025**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Mitigated	1.6739	0.0210	1.8074	1.0000e-004		9.9600e-003	9.9600e-003		9.9600e-003	9.9600e-003	0.0000	3.0728	3.0728	2.8800e-003	0.0000	3.1455
Unmitigated	1.6739	0.0210	1.8074	1.0000e-004		9.9600e-003	9.9600e-003		9.9600e-003	9.9600e-003	0.0000	3.0728	3.0728	2.8800e-003	0.0000	3.1455

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2491					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.3696					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.0000e-005	1.1000e-004	5.0000e-005	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1248	0.1248	0.0000	0.0000	0.1256
Landscaping	0.0552	0.0209	1.8074	1.0000e-004		9.9500e-003	9.9500e-003		9.9500e-003	9.9500e-003	0.0000	2.9479	2.9479	2.8800e-003	0.0000	3.0199
Total	**1.6739**	**0.0210**	**1.8074**	**1.0000e-004**		**9.9600e-003**	**9.9600e-003**		**9.9600e-003**	**9.9600e-003**	**0.0000**	**3.0728**	**3.0728**	**2.8800e-003**	**0.0000**	**3.1454**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2491					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.3696					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Hearth	1.0000e-005	1.1000e-004	5.0000e-005	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1248	0.1248	0.0000	0.0000	0.1256
Landscaping	0.0552	0.0209	1.8074	1.0000e-004		9.9500e-003	9.9500e-003		9.9500e-003	9.9500e-003	0.0000	2.9479	2.9479	2.8800e-003	0.0000	3.0199
Total	**1.6739**	**0.0210**	**1.8074**	**1.0000e-004**		**9.9600e-003**	**9.9600e-003**		**9.9600e-003**	**9.9600e-003**	**0.0000**	**3.0728**	**3.0728**	**2.8800e-003**	**0.0000**	**3.1454**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	13.9572	0.2962	7.2000e-003	23.5061
Unmitigated	13.9572	0.2962	7.2000e-003	23.5061

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	5.913 / 6.65421	9.1482	0.1934	4.7000e-003	15.3839
Condo/Townhouse High Rise	2.92 / 3.28603	4.5176	0.0955	2.3200e-003	7.5970
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000

Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.222218 / 0.136198	0.2914	7.2600e-003	1.8000e-004	0.5253
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**13.9572**	**0.2962**	**7.2000e-003**	**23.5061**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	5.913 / 6.65421	9.1482	0.1934	4.7000e-003	15.3839
Condo/Townhouse High Rise	2.92 / 3.28603	4.5176	0.0955	2.3200e-003	7.5970
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.222218 / 0.136198	0.2914	7.2600e-003	1.8000e-004	0.5253
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**13.9572**	**0.2962**	**7.2000e-003**	**23.5061**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	23.2364	1.3732	0.0000	57.5671
Unmitigated	23.2364	1.3732	0.0000	57.5671

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	74.52	15.1269	0.8940	0.0000	37.4762
Condo/Townhouse High Rise	36.8	7.4701	0.4415	0.0000	18.5068
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	3.15	0.6394	0.0378	0.0000	1.5841
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		**23.2364**	**1.3732**	**0.0000**	**57.5671**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e

Land Use	tons	MT/yr			
Apartments Mid Rise	74.52	15.1269	0.8940	0.0000	37.4762
Condo/Townhouse High Rise	36.8	7.4701	0.4415	0.0000	18.5068
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	3.15	0.6394	0.0378	0.0000	1.5841
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		**23.2364**	**1.3732**	**0.0000**	**57.5671**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Residences @ Shoreline Gateway - No Retail Alt Operation

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	244.00	Space	0.50	99,629.00	0
Enclosed Parking with Elevator	128.00	Space	0.50	51,951.00	0
Parking Lot	52.00	Space	1.22	53,324.00	0
Unenclosed Parking with Elevator	359.00	Space	0.55	130,820.00	0
Apartments Mid Rise	203.00	Dwelling Unit	2.00	275,867.00	453
Condo/Townhouse High Rise	100.00	Dwelling Unit	1.07	152,421.00	222

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Per PG&E emissions factors for 2020

Land Use - 5.84 development area lot acerage, bldg sq ft per plans, population based on 2.4 pph and 7.5% vacancy

Construction Phase - Operation only

Off-road Equipment - Operation only

Trips and VMT - Operation only

Grading - Operation only

Vehicle Trips - Trip rates adjusted per Hexagon TIA

Woodstoves - No woodstoves. 1 outdoor gas fireplace assumed for Block B amenities.

Energy Use -

Water And Wastewater - Residential bldg water use estimated per Utility Impact Study, sewer treated at Palo Alto RWC Plant

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	PhaseEndDate	6/14/2019	5/20/2019
tblFireplaces	NumberGas	30.45	0.00
tblFireplaces	NumberGas	15.00	1.00
tblFireplaces	NumberNoFireplace	8.12	203.00
tblFireplaces	NumberNoFireplace	4.00	99.00
tblFireplaces	NumberWood	34.51	0.00
tblFireplaces	NumberWood	17.00	0.00
tblLandUse	LandUseSquareFeet	51,200.00	51,951.00
tblLandUse	LandUseSquareFeet	97,600.00	99,629.00
tblLandUse	LandUseSquareFeet	20,800.00	53,324.00
tblLandUse	LandUseSquareFeet	143,600.00	130,820.00
tblLandUse	LandUseSquareFeet	203,000.00	275,867.00
tblLandUse	LandUseSquareFeet	100,000.00	152,421.00
tblLandUse	LotAcreage	1.15	0.50
tblLandUse	LotAcreage	2.20	0.50
tblLandUse	LotAcreage	0.47	1.22
tblLandUse	LotAcreage	3.23	0.55
tblLandUse	LotAcreage	5.34	2.00
tblLandUse	LotAcreage	1.56	1.07
tblLandUse	Population	581.00	453.00
tblLandUse	Population	286.00	222.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblVehicleTrips	ST_TR	6.39	5.23
tblVehicleTrips	ST_TR	4.31	5.61
tblVehicleTrips	SU_TR	5.86	4.79
tblVehicleTrips	SU_TR	3.43	4.46
tblVehicleTrips	WD_TR	6.65	5.44
tblVehicleTrips	WD_TR	4.18	5.44
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	13,226,267.20	7,409,500.00
tblWater	IndoorWaterUseRate	6,515,402.56	3,650,000.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	4.06	0.00
tblWoodstoves	NumberCatalytic	2.00	0.00
tblWoodstoves	NumberNoncatalytic	4.06	0.00
tblWoodstoves	NumberNoncatalytic	2.00	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					

2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Area	2.0719	0.0262	2.2620	1.2000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	3.8139	3.8139	3.6000e-003	0.0000	3.9046
Energy	0.0141	0.1206	0.0513	7.7000e-004		9.7500e-003	9.7500e-003		9.7500e-003	9.7500e-003	0.0000	460.3355	460.3355	0.0347	9.2000e-003	463.9441
Mobile	0.4029	1.6832	4.7020	0.0155	1.3841	0.0134	1.3975	0.3705	0.0125	0.3830	0.0000	1,415.8232	1,415.8232	0.0495	0.0000	1,417.0596
Waste						0.0000	0.0000		0.0000	0.0000	28.2929	0.0000	28.2929	1.6721	0.0000	70.0944
Water						0.0000	0.0000		0.0000	0.0000	3.9129	13.6019	17.5147	0.0148	8.7900e-003	20.5050
Total	**2.4889**	**1.8300**	**7.0153**	**0.0164**	**1.3841**	**0.0356**	**1.4197**	**0.3705**	**0.0347**	**0.4052**	**32.2058**	**1,893.5745**	**1,925.7802**	**1.7747**	**0.0180**	**1,975.5078**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.0719	0.0262	2.2620	1.2000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	3.8139	3.8139	3.6000e-003	0.0000	3.9046
Energy	0.0141	0.1206	0.0513	7.7000e-004		9.7500e-003	9.7500e-003		9.7500e-003	9.7500e-003	0.0000	460.3355	460.3355	0.0347	9.2000e-003	463.9441
Mobile	0.4029	1.6832	4.7020	0.0155	1.3841	0.0134	1.3975	0.3705	0.0125	0.3830	0.0000	1,415.8232	1,415.8232	0.0495	0.0000	1,417.0596
Waste						0.0000	0.0000		0.0000	0.0000	28.2929	0.0000	28.2929	1.6721	0.0000	70.0944
Water						0.0000	0.0000		0.0000	0.0000	3.9129	13.6019	17.5147	0.0148	8.7900e-003	20.5050
Total	**2.4889**	**1.8300**	**7.0153**	**0.0164**	**1.3841**	**0.0356**	**1.4197**	**0.3705**	**0.0347**	**0.4052**	**32.2058**	**1,893.5745**	**1,925.7802**	**1.7747**	**0.0180**	**1,975.5078**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/20/2019	5/20/2019	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.77

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4029	1.6832	4.7020	0.0155	1.3841	0.0134	1.3975	0.3705	0.0125	0.3830	0.0000	1,415.8232	1,415.8232	0.0495	0.0000	1,417.0596
Unmitigated	0.4029	1.6832	4.7020	0.0155	1.3841	0.0134	1.3975	0.3705	0.0125	0.3830	0.0000	1,415.8232	1,415.8232	0.0495	0.0000	1,417.0596

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT

Apartments Mid Rise	1,104.00	1,060.84	972.85	2,492,292	2,492,292
Condo/Townhouse High Rise	544.00	560.92	446.39	1,229,804	1,229,804
Enclosed Parking with Elevator	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	1,648.00	1,621.75	1,419.24	3,722,096	3,722,096

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Condo/Townhouse High Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.607897	0.037434	0.184004	0.107261	0.014919	0.004991	0.012447	0.020659	0.002115	0.001554	0.005334	0.000623	0.000761
Condo/Townhouse High Rise	0.607897	0.037434	0.184004	0.107261	0.014919	0.004991	0.012447	0.020659	0.002115	0.001554	0.005334	0.000623	0.000761
Enclosed Parking with Elevator	0.607897	0.037434	0.184004	0.107261	0.014919	0.004991	0.012447	0.020659	0.002115	0.001554	0.005334	0.000623	0.000761
Parking Lot	0.607897	0.037434	0.184004	0.107261	0.014919	0.004991	0.012447	0.020659	0.002115	0.001554	0.005334	0.000623	0.000761
Unenclosed Parking with Elevator	0.607897	0.037434	0.184004	0.107261	0.014919	0.004991	0.012447	0.020659	0.002115	0.001554	0.005334	0.000623	0.000761

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	320.6422	320.6422	0.0321	6.6300e-003	323.4207
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	320.6422	320.6422	0.0321	6.6300e-003	323.4207
NaturalGas Mitigated	0.0141	0.1206	0.0513	7.7000e-004		9.7500e-003	9.7500e-003		9.7500e-003	9.7500e-003	0.0000	139.6933	139.6933	2.6800e-003	2.5600e-003	140.5234
NaturalGas Unmitigated	0.0141	0.1206	0.0513	7.7000e-004		9.7500e-003	9.7500e-003		9.7500e-003	9.7500e-003	0.0000	139.6933	139.6933	2.6800e-003	2.5600e-003	140.5234

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.75381e+006	9.4600e-003	0.0808	0.0344	5.2000e-004		6.5300e-003	6.5300e-003		6.5300e-003	6.5300e-003	0.0000	93.5899	93.5899	1.7900e-003	1.7200e-003	94.1461
Condo/Townhouse High Rise	863945	4.6600e-003	0.0398	0.0169	2.5000e-004		3.2200e-003	3.2200e-003		3.2200e-003	3.2200e-003	0.0000	46.1034	46.1034	8.8000e-004	8.5000e-004	46.3774
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0141**	**0.1206**	**0.0513**	**7.7000e-004**		**9.7500e-003**	**9.7500e-003**		**9.7500e-003**	**9.7500e-003**	**0.0000**	**139.6933**	**139.6933**	**2.6700e-003**	**2.5700e-003**	**140.5234**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.75381e+006	9.4600e-003	0.0808	0.0344	5.2000e-004		6.5300e-003	6.5300e-003		6.5300e-003	6.5300e-003	0.0000	93.5899	93.5899	1.7900e-003	1.7200e-003	94.1461
Condo/Townhouse High Rise	863945	4.6600e-003	0.0398	0.0169	2.5000e-004		3.2200e-003	3.2200e-003		3.2200e-003	3.2200e-003	0.0000	46.1034	46.1034	8.8000e-004	8.5000e-004	46.3774
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0141**	**0.1206**	**0.0513**	**7.7000e-004**		**9.7500e-003**	**9.7500e-003**		**9.7500e-003**	**9.7500e-003**	**0.0000**	**139.6933**	**139.6933**	**2.6700e-003**	**2.5700e-003**	**140.5234**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	838055	110.2393	0.0110	2.2800e-003	111.1945
Condo/Townhouse High Rise	438801	57.7207	5.7700e-003	1.1900e-003	58.2209
Enclosed Parking with Elevator	304433	40.0456	4.0000e-003	8.3000e-004	40.3927
Enclosed Parking with Elevator	583826	76.7975	7.6800e-003	1.5900e-003	77.4630
Parking Lot	18663.4	2.4550	2.5000e-004	5.0000e-005	2.4763
Unenclosed Parking with Elevator	253791	33.3841	3.3400e-003	6.9000e-004	33.6734
Total		**320.6422**	**0.0321**	**6.6300e-003**	**323.4207**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	838055	110.2393	0.0110	2.2800e-003	111.1945
Condo/Townhouse High Rise	438801	57.7207	5.7700e-003	1.1900e-003	58.2209
Enclosed Parking with Elevator	304433	40.0456	4.0000e-003	8.3000e-004	40.3927
Enclosed Parking with Elevator	583826	76.7975	7.6800e-003	1.5900e-003	77.4630
Parking Lot	18663.4	2.4550	2.5000e-004	5.0000e-005	2.4763
Unenclosed Parking with El	253791	33.3841	3.3400e-003	6.9000e-004	33.6734
Total		**320.6422**	**0.0321**	**6.6300e-003**	**323.4207**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.0719	0.0262	2.2620	1.2000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	3.8139	3.8139	3.6000e-003	0.0000	3.9046
Unmitigated	2.0719	0.0262	2.2620	1.2000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	3.8139	3.8139	3.6000e-003	0.0000	3.9046

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3085					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6944					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.0000e-005	1.1000e-004	5.0000e-005	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1248	0.1248	0.0000	0.0000	0.1256
Landscaping	0.0690	0.0261	2.2619	1.2000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	3.6890	3.6890	3.6000e-003	0.0000	3.7790
Total	**2.0719**	**0.0262**	**2.2620**	**1.2000e-004**		**0.0125**	**0.0125**		**0.0125**	**0.0125**	**0.0000**	**3.8139**	**3.8139**	**3.6000e-003**	**0.0000**	**3.9046**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3085					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6944					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.0000e-005	1.1000e-004	5.0000e-005	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1248	0.1248	0.0000	0.0000	0.1256
Landscaping	0.0690	0.0261	2.2619	1.2000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	3.6890	3.6890	3.6000e-003	0.0000	3.7790
Total	**2.0719**	**0.0262**	**2.2620**	**1.2000e-004**		**0.0125**	**0.0125**		**0.0125**	**0.0125**	**0.0000**	**3.8139**	**3.8139**	**3.6000e-003**	**0.0000**	**3.9046**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	17.5147	0.0148	8.7900e-003	20.5050
Unmitigated	17.5147	0.0148	8.7900e-003	20.5050

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	7.4095 / 8.3383	11.7343	9.9300e-003	5.8900e-003	13.7377
Condo/Townhouse High Rise	3.65 / 4.10754	5.7804	4.8900e-003	2.9000e-003	6.7673
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**17.5147**	**0.0148**	**8.7900e-003**	**20.5050**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	7.4095 / 8.3383	11.7343	9.9300e-003	5.8900e-003	13.7377
Condo/Townhouse High Rise	3.65 / 4.10754	5.7804	4.8900e-003	2.9000e-003	6.7673
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**17.5147**	**0.0148**	**8.7900e-003**	**20.5050**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	28.2929	1.6721	0.0000	70.0944
Unmitigated	28.2929	1.6721	0.0000	70.0944

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	93.38	18.9553	1.1202	0.0000	46.9609
Condo/Townhouse High Rise	46	9.3376	0.5518	0.0000	23.1335
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		**28.2929**	**1.6721**	**0.0000**	**70.0944**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	93.38	18.9553	1.1202	0.0000	46.9609
Condo/Townhouse High Rise	46	9.3376	0.5518	0.0000	23.1335
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000

Total		**28.2929**	**1.6721**	**0.0000**	**70.0944**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Appendix D
Arborist Report

PNW-ISA Certified Tree Risk Assessor #1188
ISA Certified Arborist #WE-0132A
www.rmarborist.com
eMail: ray@rmarborist.com

Ray Morneau
• ARBORIST •

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ISA Certified Arborist's Report with Tree Inventory Shoreline Gateway – Phase 2

UPDATED REPORT: July 16, 2018

Prepared for:
L H Shoreline LP
Barry D. Green

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Prepared by:
Ray Morneau
ISA Certified Arborist #WE-0132A
ISA Tree Risk Assessment Qualified

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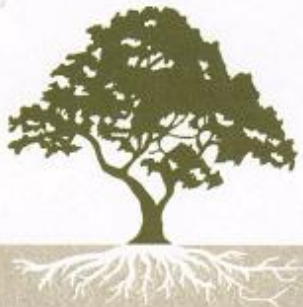


1.0 Assignment & Introduction

I have been retained by LH Shoreline LP / Barry D. Green, to provide an update to my earlier arborist reports which covered Phase 1 of this project at 1001 North Shoreline Boulevard in Mountain View.

This update will provide current tree inventory information for all new trees added during Phase 1 as well as refreshed data for the existing trees. Heritage trees are marked specifically and their suitability for either saving or transplanting is addressed, taking into consideration practicality factors including tree health, location, and cost-effectiveness. By request, particular attention was paid to calculating average crown size of trees #156, 158-59, 161-62, 188-89, and 191-93.

Project plans and drawings were made available via cloud-based storage by the team. I have reviewed tree-related issues and I have selected the "Tree Disposition Plan" (Sheet L3.1, dated 07/17/2018) with tree numbers from my initial survey added by the Landscape Architect to serve as a "Tree Map" to accompany this updated report. The annotated map is attached in section 3 of this report.

2.0 Discussion with Leading Summary

2.1 Summary

At time of survey, three hundred forty-one (341) trees were associated with Phase 2 of this project, either as site trees, adjacent off-site street trees in close proximity, or overhanging neighbors' trees. The "Tree Disposition Plan" (Sheet L3.1) includes a legend explaining general tree categories with further information.

This report follows the "Landscape Guidelines" published by the City of Mountain View.

Of the 341 trees, 32 have protected status as "Heritage" size by industry-standard measurement. Of those 32 Heritage trees, nine (9) are currently slated to be retained in place, fifteen (15) can be categorized as likely successes for recycling/transplant/relocation, and eight (8) are not recommended for relocation due to structural challenges, species problems, and/or overall tree health, and therefore are recommended for removal.

See summary charts below:

Tree Frequency Charts & Tables

Non-HT Summary	
HT size =	32
Non-HT =	309
	341

Condition Summary	
Excellent =	0
Good =	120
Fair =	160
Poor =	31
Very Poor =	30
Dead =	0
	341

Tree Disposition Summary	
98	= K, Keep
67	= X, Remove, per Tr Dispo Plan (Sheet L3.1 07/17/2018)
176	= "Re?", possible Recycle, per RMArborist suggestion
341	

Tree Frequency Tables

Alpha Sort by Botanical Name		
Acer palmatum	1	Maple, Japanese
Arbutus 'Marina'	3	Strawberry Tree
Callistemon viminalis	2	Bottlebrush
Cercis canadensis	8	Redbud, Eastern
Chitalpa tashkentensis??	5	Chitalpa(??)
Eucalyptus polyanthemos	2	Gum, Silver Dollar
Fraxinus pennsylvanica	1	Ash, Green
Lagerstroemia indica	11	Crape Myrtle
Liquidambar styraciflua	25	Sweetgum
Lophostemon confertus	35	Brisbane Box
Magnolia grandiflora	1	Magnolia, Southern
Pistachia chinensis	3	Pistache, Chinese
Platanus acerifolia	61	London Planetree
Podocarpus gracilior	15	Pine, Fern
Populus nigra 'Italica'	11	Poplar, Lombardy
Populus-×-canadensi	19	Poplar, Carolina
Quercus ilex	1	Oak, Holly
Quercus virginiana	21	Oak, Southern Live
Sequoia sempervirens	12	Redwood, Coast
Thuja plicata	4	Cedar, Western Red
Ulmus parvifolia	73	Elm, Chinese
Xylosma congestum	27	Xylosma
	341	

Alpha Sort by Common Name		
Fraxinus pennsylvanica	1	Ash, Green
Callistemon viminalis	2	Bottlebrush
Lophostemon confertus	35	Brisbane Box
Thuja plicata	4	Cedar, Western Red
Chitalpa tashkentensis??	5	Chitalpa(??)
Lagerstroemia indica	11	Crape Myrtle
Ulmus parvifolia	73	Elm, Chinese
Eucalyptus polyanthemos	2	Gum, Silver Dollar
Platanus acerifolia	61	London Planetree
Magnolia grandiflora	1	Magnolia, Southern
Acer palmatum	1	Maple, Japanese
Quercus ilex	1	Oak, Holly
Quercus virginiana	21	Oak, Southern Live
Podocarpus gracilior	15	Pine, Fern
Pistachia chinensis	3	Pistache, Chinese
Populus-×-canadensi	19	Poplar, Carolina
Populus nigra 'Italica'	11	Poplar, Lombardy
Cercis canadensis	8	Redbud, Eastern
Sequoia sempervirens	12	Redwood, Coast
Arbutus 'Marina'	3	Strawberry Tree
Liquidambar styraciflua	25	Sweetgum
Xylosma congestum	27	Xylosma
	341	

.

Frequency Sort by Botanical Name				Frequency Sort by Common Name		
Ulmus parvifolia	73	Elm, Chinese		*Ulmus parvifolia*	73	Elm, Chinese
Platanus acerifolia	61	London Planetree		*Platanus acerifolia*	61	London Planetree
Lophostemon confertus	35	Brisbane Box		*Lophostemon confertus*	35	Brisbane Box
Xylosma congestum	27	Xylosma		Xylosma congestum	27	Xylosma
Liquidambar styraciflua	25	Sweetgum		*Liquidambar styraciflua*	25	Sweetgum
Populus-×-canadensi	19	Poplar, Carolina		*Populus-×-canadensi*	19	Poplar, Carolina
Podocarpus gracilior	15	Pine, Fern		*Quercus virginiana*	21	Oak, Southern Live
Quercus virginiana	21	Oak, Southern Live		Podocarpus gracilior	15	Pine, Fern
Sequoia sempervirens	12	Redwood, Coast		Sequoia sempervirens	12	Redwood, Coast
Lagerstroemia indica	11	Crape Myrtle		Lagerstroemia indica	11	Crape Myrtle
Populus nigra 'Italica'	11	Poplar, Lombardy		*Populus nigra 'Italica'*	11	Poplar, Lombardy
Cercis canadensis	8	Redbud, Eastern		Cercis canadensis	8	Redbud, Eastern
Chitalpa tashkentensis??	5	Chitalpa(??)		*Chitalpa tashkentensis??*	5	Chitalpa(??)
Thuja plicata	4	Cedar, Western Red		*Thuja plicata*	4	Cedar, Western Red
Arbutus 'Marina'	3	Strawberry Tree		Pistachia chinensis	3	Pistache, Chinese
Pistachia chinensis	3	Pistache, Chinese		*Arbutus 'Marina'*	3	Strawberry Tree
Callistemon viminalis	2	Bottlebrush		Callistemon viminalis	2	Bottlebrush
Eucalyptus polyanthemos	2	Gum, Silver Dollar		Eucalyptus polyanthemos	2	Gum, Silver Dollar
Acer palmatum	1	Maple, Japanese		Fraxinus pennsylvanica	1	Ash, Green
Fraxinus pennsylvanica	1	Ash, Green		Magnolia grandiflora	1	Magnolia, Southern
Magnolia grandiflora	1	Magnolia, Southern		*Acer palmatum*	1	Maple, Japanese
Quercus ilex	1	Oak, Holly		Quercus ilex	1	Oak, Holly
	341				341	

2.2 Discussion

General Dialogue:

The Phase 1 building's construction footprint is complete; adjacent trees to the southwest will not have new construction impacts. However, with Phase 2 construction set to begin, the remainder of the site will undergo such substantial changes that most of the interior trees are unlikely to survive.

Despite their current status, most of these trees planted during Phase 1 have not become wholly dependent upon their current locations – many of those could be expected to be successful transplants/relocates on another similarly-sized development. Further financial analysis regarding the feasibility of transplanting versus removal and replanting would be required by a combination of the contractor, owner, and landscape firm.

As referred to in the summary, there are challenges with moving most Heritage size trees. Expense is a major factor, as the initial cost of transplanting a mature tree can run $50,000 to $100,000, in addition to the ongoing costs of 10+ years of post-op care to ensure their successful acclimation to their new locations.

However, certain species are not likely to survive despite ideal relocation circumstances. Eucalyptus trees are not good relocation candidates due to species-specifics like propensity to internal decay, poor structure, and a predisposition to the phenomenon of "sudden summer branch drop." Fern pines also have serious structural challenges which limit their transplant candidacy. Despite the fact that some healthy specimens associated with this project have had

positive growing conditions at the edge of the site, they are not likely to be more successful transplants than others of their species.

General: Heritage Trees:
Mountain View Municipal Code defines "Heritage Tree" to be any tree 48-inch circumference (15.3-inch diameter) at 54-inches above grade, plus any oak, redwood, or cedar 12-inch circumference (3.8-inch diameter)].

Heritage Trees at Shoreline Gateway Project: 1001 N Shoreline Blvd, Mtn Vw.

Heritage Trees: Listing to remain

T #	Name, Common	Diam.	Circ.	Overall	Comments
8	London Plane	34.8"	109.3"	77% Good	Three in Shoreline Boulevard frontage at new Phase I building; no new impacts.
115	Sweetgum	21.3"	66.9"	50% Fair	
120	Sweetgum	15.6"	49"	55% Fair	
161	Pine, Fern	19.6"	61.6"	70% Good	Had been in parking lot against freeway fence; now in new building footpirnt. Despite structure and logistics challenges for these trees on this site, we have a high likelihood of success if contractor follow TPMs (Tree Protection Measures).
162	Pine, Fern	15.6"	49.0"	55% Fair	
189	Pine, Fern	15.3"	48.1"	51% Fair	
191	Pine, Fern	17.7"	55.6"	44% Poor	
192	Pine, Fern	20.7"	65.0"	42% Poor	
193	Pine, Fern	18.2"	57.2"	47% Poor	

Heritage Trees: Listing to remove

T #	Name, Common	Diam.	Circ.	Overall	Comments
164	Pine, Fern	18.5"	58.1"	51% Fair	Had been in parking lot against freeway fence; now in new building footpirnt. Now structure and logistics challenges.
165	Pine, Fern	15.4"	48.4"	50% Fair	
168	Pine, Fern	16.4"	51.5"	35% Poor	
182	Pine, Fern	17.7"	55.6"	55% Fair	
186	Pine, Fern	16.8"	52.8"	60% Fair	
198	Euc (Silver Dollar)	22.8"	71.6"	65% Fair	Two eucalypts in footprint at fenceline of prior CalTrans ROW -- now structure and size/volume challenges..
199	Euc (Silver Dollar)	28.6"	89.8"	70% Fair	
222	Sweetgum	22.3"	70.1"	55% Fair	In construction footrint at end point of prior CalTrans ROW.
236	Redwood	6.4"	20.1"	82% Good	A dozend of the redwoods in prior CalTrans right-of-way … & now in a new building footprint.
237	Redwood	7.6"	23.8"	82% Good	
238	Redwood	7.2"	2.6"	82% Good	
239	Redwood	8.1"	25.5"	82% Good	
240	Redwood	9"	28.3"	82% Good	
241	Redwood	9.2"	28.9"	82% Good	
242	Redwood	8.4"	26.4"	82% Good	
243	Redwood	6.8"	21.4"	82% Good	
244	Redwood	7.7"	24.2"	82% Good	
245	Redwood	7.7"	24.2"	82% Good	
246	Redwood	8.7"	27.3"	82% Good	
247	Redwood	8.4"	26.4"	82% Good	
408	Oak, So. Live	4.0"	12.6"	65% Fair	NE corner of new phase 1 building … & in new work footprint.
409	Oak, So. Live	3.9"	12.2"	60% Fair	East of new phase 1 building … & in new work footprint.
410	Oak, So. Live	3.9"	12.2"	60% Fair	East of new phase 1 building … & in new work footprint.

Required Mitigations:

Three types of mitigation are required by local Planning Departments:

A. Heritage Tree removal in Mountain View calls for two-to-one replanting of a new tree of at least a 24-inch-box-size.

B. Tree replanting/replacement of smaller size removals does not call out a specific size and/or quantity but the Planners are looking for a general landscape plan that follows the City's published Landscape Guidelines.

C. Mitigation in the form of Tree Protection Measures (TPMs) are required to promote preservation of trees being retained in order to reduce the likelihood of tree decline/death due to construction stresses. My Tree Preservation Guidelines at the end of this report addresses that. Some of the most important measures include:

C.1 Exclusionary protective fence to keep traffic and other construction impacts off of as much of the trees' root zones as possible.

C.2 Spread a layer of "chipper chips" wood chip mulch to buffer the root zones – from the trunk to at least the branch tips, if possible. Mulch buffer depth depends of the traffic load and the Project Arborist can advise.

C.3 Provide supplemental water to the root zones – a deep soaking every two to four weeks during the heat of the year.

C.4 Make no cuts or fills or other grade changes or hardscape installations within trees' driplines unless reviewed and signed-off by the Project Arborist.

C.5 All trenching/excavation in the root zones must be with the advice and/or monitoring of the Project Arborist. Generally, keep all gas, water, phone, drainage, irrigation, and foundation work out beyond trees' branch tips.

C.6 No parking, re-fueling, stockpiling spoils, equipment storage, or driving over unprotected root zones.

C.7 Qualified Tree Care Contractors must be retained for any tree work. Your Project Arborist can advise as to qualifications of firms as well as write the appropriate pruning specifications.

2.3 Impacts to Heritage Trees and Proposed Mitigation

The Project Landscape Architect has provided two sheets particularly relevant at this stage. Besides being part of the submittal set, I have included thumbnails of them in the next section: Sheet L3.1 ("Tree Disposition Plan") and Sheet L4.1 ("Conceptual Planting Plan – Site"). L4.1 contains a Mitigation Tree Table … copied here:

MITIGATION TREES TABLE						
Heritage Trees			Required Mitigation Tree	Proposed Mitigation Trees		
Total	Remain	Remove	2:1 Ratio, 24" Box Min.	Mitigation Trees 36" Box	Other 36" Box	Other 24" Box
32	9	23	46	50	54	78

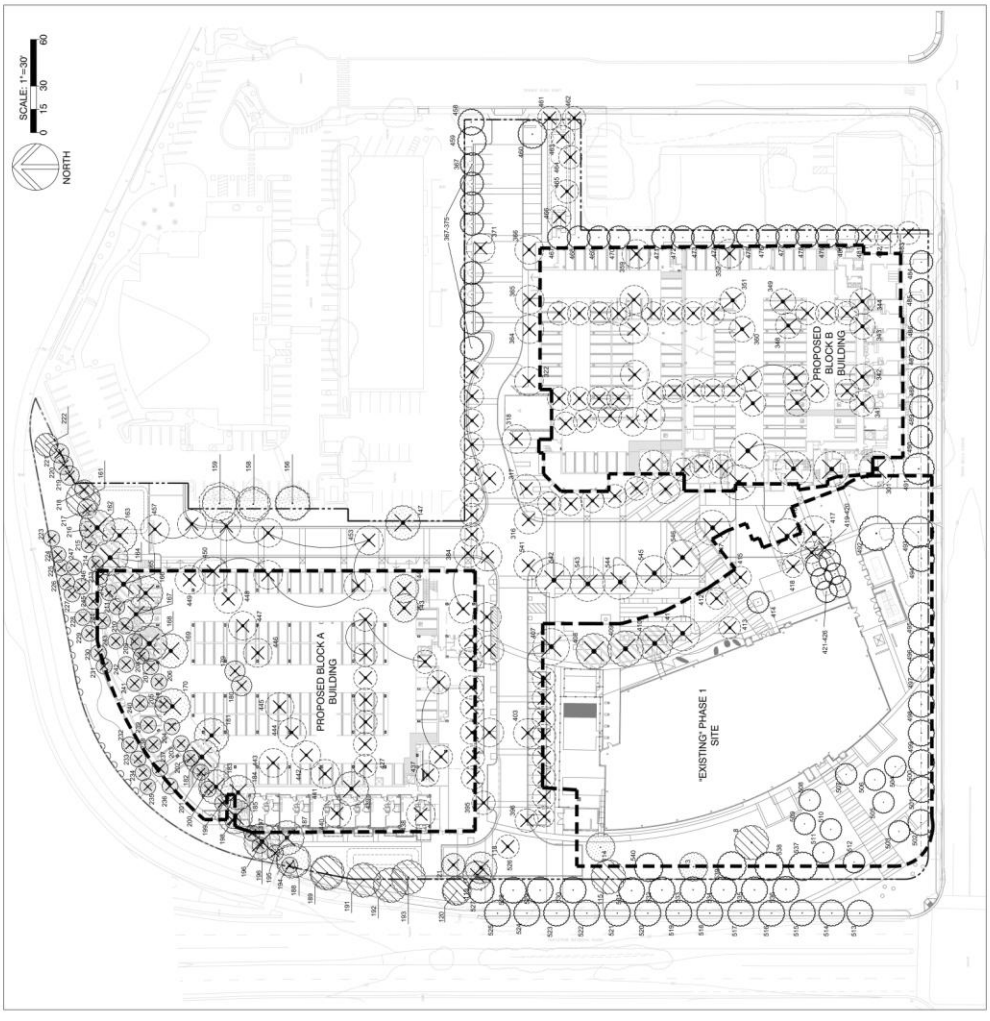
Overall, the project proposes to remove 243 trees and would provide 180 new trees on the site and residential podiums. Of this total, 50 new trees would be new heritage trees.
There are 23 heritage trees on the site; of this total, the project would retain in place 9 trees and remove 23 trees.

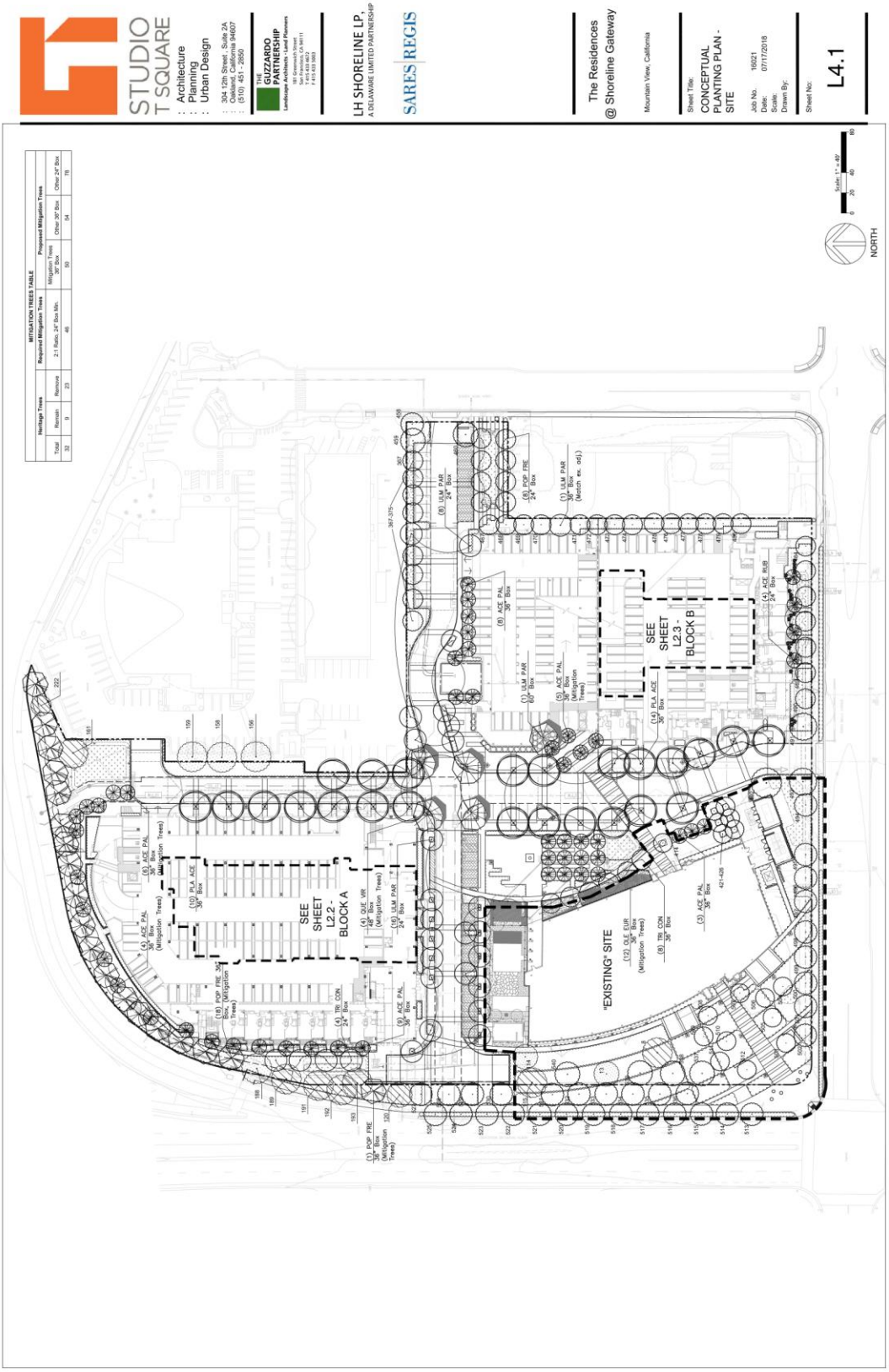
As required by the City of Mountain View, the project would provide mitigation for loss of heritage trees at a 2:1 ratio (46 trees at a minimum size of 24" box). The project proposes to provide 50 new heritage trees in total, of which 78 would be 24" box and 54 would be 36" box. This would provide adequate mitigation to address project impacts under the City of Mountain View's ordinance

3.0 Site Plans, Tree Data, & Data Legend

3.1-a Sheet L3.1 ("Tree Disposition Plan") Plan,
with my tree survey ID numbers added on the CAD drawing
by the Landscape Architect

3.1-b Sheet 4.1 Conceptual Planting Plan - Site


TREE DISPOSITION LEGEND
KEY
DESCRIPTION
QUANTITY
EXISTING TREE TO REMAIN
6
PHASE 1 TREES TO REMAIN*
88
EXISTING HERITAGE TREE TO REMAIN
9
HERITAGE TREES TO BE REMOVED
23
PHASE 1 TREES TO BE REMOVED
157
EXISTING TREE TO BE REMOVED
58
NEW TREES TO BE PLANTED (SITE & PODIUM)
180
TOTAL TREES ESTIMATED TO BE LEFT STANDING AT PROJECT COMPLETION
283
Note: See Arborist Report for Existing Tree Numbers
STUDIO T SQUARE
Architecture
Planning
Urban Design
304 12th Street , Suite 2A
Oakland, California 94607
(510) 451-2850
HH GUZZARDO PARTNERSHIP
Landscape Architects - Land Planners
LH SHORELINE LP,
A DELAWARE LIMITED PARTNERSHIP
SARES|REGIS
The Residences
@ Shoreline Gateway
Mountain View, California
Sheet Title:
TREE DISPOSITION PLAN
Job No. 16021
Date: 07/17/2018
Scale:
Drawn By:
Sheet No:
L3.1
Ray Morneau, Arborist
5.0 Tree Preservation Guidelines: Tree Protection Measures
5.1 Fencing and other root zone protection
5.2 Prohibited Acts & Advisableness Requirements
5.3 Construction-time Maintenance & Follow-up
SCALE: 1"=30'
0 15 30 60
NORTH
PROPOSED BLOCK A BUILDING
PROPOSED BLOCK B BUILDING
"EXISTING" PHASE 1 SITE


STUDIO T SQUARE
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THE GUZZARDO PARTNERSHIP
LH SHORELINE LP,
A DELAWARE LIMITED PARTNERSHIP
SARES|REGIS
The Residences @ Shoreline Gateway
Mountain View, California
CONCEPTUAL PLANTING PLAN - SITE
Job No. 16021
Date: 07/17/2018
Scale:
Drawn By:
Sheet No: L4.1
MITIGATION TREES TABLE
Heritage Trees
Total 32
Remain 9
Remove 23
Required Mitigation Trees
2:1 Ratio, 24" Box Min. 46
Proposed Mitigation Trees
Mitigation Trees 36" Box 60
Other 36" Box 54
Other 24" Box 76
SEE SHEET L2.2 - BLOCK A
SEE SHEET L2.3 - BLOCK B
'EXISTING' SITE
NORTH
Scale: 1" = 40'

3.2 Tree Data (following eighteen pages)
3.3 Data Legend (then following three pages)

3.2 Tree Inventory Data

T #	Name, Common (*Genus species*)	DSH (inches)	Trunk Circumf.	Av. Crown Radius	Height	Vigor	Form	Overall Condition	Overall Aptitude	Age / Longevity	Heritage-sized?	K / X / Relo?	Comments
8	London Plane (*Platanus acerifolia*)	34.8" @ 1'	109.3" @1'	37'	60'	70%	85%	77% Good	High	Mature	Yes	K	In Shoreline frontage w ith the new Phase I building.
13	Sw eetgum (*Liquidambar styraciflua*)	12.5"	39.3"	18'	35'	60%	60%	65% Fair	Mod.	Mature	No	K	In Shoreline frontage w ith the new Phase I building.
114	Sw eetgum *(Liquidambar styraciflua)*	13.0"	40.8"	16'	40'	68%	40%	50% Fair	Mod.	Mature	No	K	In Shoreline frontage w ith the new Phase I building.
115	Sw eetgum *(Liquidambar styraciflua)*	21.3" @ 1'	66.9" @1'	18'	45'	60%	40%	50% Fair	Mod.	Mature	Yes	K	In Shoreline frontage w ith the new Phase I building.
118	Sw eetgum *(Liquidambar styraciflua)*	12.7"	39.9"	14'	45'	55%	30%	47% Poor	Mod.	Mature	No	X	In Shoreline frontage w ith the new Phase I building.
119	Sw eetgum *(Liquidambar styraciflua)*	14.0"	44"	12'	42'	55%	30%	47% Poor	Mod.	Mature	No	X	In Shoreline frontage w ith the new Phase I building.
120	Sw eetgum *(Liquidambar styraciflua)*	15.6"	49"	14'	43'	60%	50%	55% Fair	Mod.	Mature	Yes	K	In Shoreline frontage w ith the new Phase I building.
121	Sw eetgum *(Liquidambar styraciflua)*	11.4"	35.8"	11'	40'	50%	45%	47% Poor	Mod.	Mature	No	X	In Shoreline frontage w ith the new Phase I building.
143	Sw eetgum (Liquidambar styraciflua)	15.3"	48.1"	18'	45'	60%	50%	55% Fair	Mod.	Mature	No	X	Prior existing building w alkw ay at 3-feet; 3-feet BOC (drive isle). Notable foliage branch endw eights.
144	Sw eetgum (Liquidambar styraciflua)	10.5"	33"	17	40'	55%	55%	55% Fair	Mod.	Mature	No	X	Existing building w alkw ay at 3-feet; 3-feet BOC (drive isle). Notable foliage branch endw eights.
147	Sw eetgum (Liquidambar styraciflua)	14.6"	45.9"	18'	40'	60%	60%	60% Fair	Mod.	Mature	No	X	In planter strip betw een existing parking lots, 2-foot to parking lot curb. Significant foliage branch endw eights.
156	London Plane (Platanus acerifolia)	13.9"	43.7"	18'	48'	75%	65%	70% Good	High	Mature	No	K	Had been in 6-foot-w ide planter strip betw een existing drive aisle and neighbor's parking lot. Moderate foliage branch endw eights.
157	London Plane (Platanus acerifolia)	9.3"	29.2"	17'	45'	60%	75%	67% Fair	High	Mature	No	K	Had been in 6-foot-w ide planter strip betw een prior drive aisle and neighbor's parking lot. Electroleer directed over parking at 3-feet. Moderate foliage branch endw eights.
158	Pistache, Chinese (Pistachia chinensis)	7.0"	22"	13'	22'	70%	70%	70% Good	High	Mature	No	K	In neighbor's parking lot planter bumpout. Tip dieback. Neighbor's tree, thus NT/PT.

159	Pistache, Chinese (Pistachia chinensis)	6.5"	20.4"	18	20'	68%	65%	67% Fair	High	Mature	No	K	Had been in parking lot planter / drive aisle endcap, 3-foot-w ide.
160	Pistache, Chinese (Pistachia chinensis)	6.7"	21"	12'	17'	50%	50%	50% Fair	High	Mature	No	K	Had been in triangular parking lot planter bumpout, 5-feet BOC.
161	Pine, Fern (Podocarpus gracilior)	19.6" @ 3'	61.6" @3'	16'	40'	70%	70%	70% Good	Mod.	Mature	Yes	K	Had been in crow ded parking lot planter strip against freew ay chain link fence; fence at 2-feet, curb at root flare. HT/PT.
162	Pine, Fern (Podocarpus gracilior)	15.6"	49.0"	16'	50'	60%	50%	55% Fair	Mod.	Mature	Yes	K	Had been in crow ded parking lot planter strip against freew ay chain link fence; fence at 2-feet, curb at root flare. Co-dominant trunks structural problem at 5-feet. HT/PT.
163	Sw eetgum (Liquidambar styraciflua)	8.9"	28.0"	14'	45'	35%	45%	40% Poor	Mod.	Mature	No	X	Had been in 8-foot-w ide parking lot bump-out w ith cracked curb.
164	Pine, Fern (Podocarpus gracilior)	18.5"	58.1"	17'	40'	52%	50%	51% Fair	Mod.	Mature	Yes	X	In crow ded parking lot planter strip against freew ay chain link fence; fence at 2-feet, curb at root flare. Co-dominant trunks structural problem at 5-feet. HT/PT.
165	Pine, Fern (Podocarpus gracilior)	15.4"	48.4"	18'	46'	50%	50%	50% Fair	Mod.	Mature	Yes	X	In crow ded parking lot planter strip against freew ay chain link fence; fence at 2-feet, curb at root flare. Co-dominant trunks structural problem at 6-feet.
166	Sw eetgum (Liquidambar styraciflua)	10.1"	31.7"	15'	40'	45%	50%	47% Poor	Mod.	Mature	No	X	Had been in 8-foot-w ide parking lot bump-out w ith cracked curb.
167	Pine, Fern (Podocarpus gracilior)	14.9" @ 3'	46.8" @ 3'	20'	40'	55%	55%	55% Fair	Mod.	Mature	No	X	Had been in crow ded parking lot planter strip against freew ay chain link fence; fence at 2-feet, curb at root flare. HT/PT.
168	Pine, Fern (Podocarpus gracilior)	16.4" @ 3'	51.5 @ 3'	15'	44'	35%	35%	35% Poor	Mod.	Over-mature	Yes	X	Had been in crow ded parking lot planter strip against freew ay chain link fence; fence at 2-feet, curb at root flare. HT/PT.
169	Sw eetgum (Liquidambar styraciflua)	12.4"	39.0"	18'	40'	45%	45%	45% Poor	Mod.	Mature	No	X	Had been in 8-foot-w ide parking lot bump-out w ith cracked curb.
170	Oak, Holly (Quercus ilex)	~10"	~31.4"	12'	35'	58%	50%	50% Fair	Mod.	Mature	No	X	Had been in crow ded parking lot planter strip just across/against freew ay chain link fence. HT/PT.
179	Crape Myrtle (Lagerstroemia indica)	4.6"	14.5"	8'	20'	80%	80%	80% Good	High	Mature	No	Re?	Had been in front w alk/entrance planter w ith over-w atered flow ers.
180	Crape Myrtle (Lagerstroemia indica)	3.5"	11.0"	5'	20'	75%	80%	77% Good	High	Mature	No	Re?	Had been in front w alk/entrance planter w ith over-w atered flow ers. Very stressed - leave desiccating as if w on't make it through this summer.
181	Sw eetgum (Liquidambar styraciflua)	10.6"	33.3"	9'	43'	50%	55%	52% Fair	Mod.	Mature	No	X	Had been in 8-foot-w ide parking lot bump-out w ith cracked curb.
182	Pine, Fern (Podocarpus gracilior)	17.7"	55.6"	18'	48'	50%	60%	55% Fair	Mod.	Mature	Yes	X	Had been in crow ded parking lot planter strip against freew ay chain link fence; fence at 2-feet, curb at root flare. Co-dominant trunks structural problem at 6-feet. HT/PT.
183	Pine, Fern (Podocarpus gracilior)	8.8" @ 3'	27.6" @ 3'	11'	26'	45%	40%	42% Poor	Low	Over-mature	No	X	Had been in crow ded parking lot planter strip against freew ay chain link fence; fence at 2-feet, curb at root flare. Under eucalyptus overhanging from freew ay right-of-w ay.
184	Sw eetgum (Liquidambar styraciflua)	9.5" @ 3'	29.8" @ 3'	14'	28'	50%	50%	50% Fair	Mod.	Mature	No	X	Had been in 8-foot-w ide parking lot bump-out w ith cracked curb. Under eucalyptus overhanging from freew ay right-of-w ay.

185	Pine, Fern (Podocarpus gracilior)	8.1" @ 2'	25.4" @ 2'	10'	22'	20%	25%	22% V. Pr.	Very Low	Over-mature	No	X	Had been in crowded parking lot planter strip against freeway chain link fence; fence at 1-feet, curb at root flare.
186	Pine, Fern (Podocarpus gracilior)	16.8" @ 2'	52.8" @ 2'	15'	40'	60%	60%	60% Fair	Mod.	Mature	Yes	X	Had been in crowded parking lot planter strip against freeway chain link fence; fence at 2-feet, curb at root flare. HT/PT.
187	Sweetgum (Liquidambar styraciflua)	10.6" @ 3'	33.3" @ 3'	12'	30'	55%	55%	55% Fair	Mod.	Mature	No	X	Had been in 8-foot-wide parking lot bump-out with cracked curb.
188	Pine, Fern (Podocarpus gracilior)	13.7"	43.0"	12'	35'	45%	50%	47% Poor	Mod.	Mature	No	K	Had been in crowded parking lot planter strip against freeway chain link fence; fence at 1-feet, curb at root flare. Now yellowing.
189	Pine, Fern (Podocarpus gracilior)	15.3" @ 2'	48.1" @ 2'	17'	45'	52%	50%	51% Fair	Mod.	Mature	Yes	K	Had been in crowded parking lot planter strip against freeway chain link fence; fence at 1-feet, curb at root flare. Now yellowing, thinning, declining.
191	Pine, Fern (Podocarpus gracilior)	17.7" @ 3'	55.6" @ 3'	18'	42'	48%	40%	44% Poor	Mod.	Mature	Yes	K	Had been in crowded parking lot planter strip against freeway chain link fence; fence at 1-feet, curb at root flare. HT/PT.
192	Pine, Fern (Podocarpus gracilior)	20.7" @ 3'	65.0" @ 3'	17'	40'	45%	40%	42% Poor	Mod.	Mature	Yes	K	Had been in crowded parking lot planter strip against freeway chain link fence; fence at 1-feet, curb at root flare. HT/PT.
193	Pine, Fern (Podocarpus gracilior)	18.2"	57.2"	20'	45'	55%	40%	47% Poor	Mod.	Mature	Yes	K	Had been in parking lot endcap planter at entrance driveway.
194	Xylosma (Xylosma congestum)	5.0"	15.7"	8'	12'	25%	10%	17% V. Pr.	Very Low	Over-mature	No	X	At Shoreline end of fenceline. Crowded; lop-sided; very misshapen. Trunk originates ~2' onto 1091 but crosses chain link fence.
195	Xylosma (Xylosma congestum)	6.4"	20.1"	16'	20'	10%	10%	10% V. Pr.	Very Low	Over-mature	No	X	Near Shoreline end of fenceline. Crowded; lop-sided; very misshapen. Trunk originates ~1' onto 1091 but crosses chain link fence.
196	Xylosma (Xylosma congestum)	5.2"	16.3"	12'	18'	2%	2%	02% V. Pr.	Very Low	Over-mature	No	X	Near Shoreline end of fenceline. Crowded; lop-sided; very misshapen. Trunk originates ~1' onto 1091 but crosses chain link fence.
197	Ash, Green (Fraxinus pennsylvanica)	4.3"	13.5"	10'	18'	66%	55%	60% Fair	Very Low	Semi-mature	No	X	At top of drainage swale; 6-feet to chain link fence.
198	Gum, Silver Dollar (Eucalyptus polyanthemos)	22.8"	71.6"	25'	60'	60%	70%	65% Fair	Mod.	Mature	Yes	X	At top of drainage swale; 6-feet to chain link fence. Very buried by ivy - up trunk to ~30-feet.
199	Gum, Silver Dollar (Eucalyptus polyanthemos)	28.6"	89.8"	40'	70'	70%	70%	70% Fair	Mod.	Mature	Yes	X	At top of drainage swale; 6-feet to chain link fence. Very buried by ivy - up trunk to ~30-feet.
200	Xylosma (Xylosma congestum)	5.5"	17.3"	10'	18'	33%	20%	25% V. Pr.	Very Low	Over-mature	No	X	Just on CalTrans side of chain link fence.
201	Xylosma (Xylosma congestum)	7.3"	2.9"	12'	22'	30%	20%	25% V. Pr.	Very Low	Over-mature	No	X	Just 1-foot across chain link fence on 1091 side but crosses over. Misshapen..
202	Bottlebrush (Callistemon viminalis)	6.0" @ 0'	6.0" @ 0'	12'	18'	35%	10%	25% V. Pr.	Very Low	Over-mature	No	X	At top of swale; multi-stemmed from ground level. Overgrown, tangled.
203	Bottlebrush (Callistemon viminalis)	10.7" @ 0'	32.7" @ 0"	19'	22'	40%	10%	25% V. Pr.	Very Low	Over-mature	No	X	At top of swale; multi-stemmed from ground level. Overgrown, tangled.
204	Magnolia, Southern (Magnolia grandiflora)	~12" @ 6"	~37.7"	15'	20'	25%	25%	25% V. Pr.	Very Low	Over-mature	No	X	At top of swale; 6-feet to chain link. Overgrown with dense ivy (tag on ivy stem); severely declining (sparse) foliage crown

205	Xylosma (Xylosma congestum)	4.3"	13.5"	17'	17'	40%	20%	30% Poor	Very Low	Over-mature	No	X	In chain link; branching close to ground level; crow ded; lop-sided.
206	Xylosma (Xylosma congestum)	~8.2" @ 6"	25.7" @ 6"	20'	22'	25%	20%	22% V. Pr.	Very Low	Over-mature	No	X	In chain link; branching close to ground level; crow ded; lop-sided.
207	Xylosma (Xylosma congestum)	4.2"	13.2"	16'	18'	25%	20%	22% V. Pr.	Very Low	Over-mature	No	X	Just across chain link fence but grow ing through. Crow ded, lop-sided, tangled, substantial deadw ood.
208	Xylosma (Xylosma congestum)	~11" @ 6"	~34.6" @ 6"	21'	20'	25%	20%	22% V. Pr.	Very Low	Over-mature	No	X	Just across chain link fence but grow ing through. Crow ded, lop-sided, tangled, substantial deadw ood.
209	Xylosma (Xylosma congestum)	~12" @ 6"	~37.7" @ 6"	15	16'	25%	20%	22% V. Pr.	Very Low	Over-mature	No	X	Just across chain link fence but grow ing through. Crow ded, lop-sided, tangled, substantial deadw ood.
210	Xylosma (Xylosma congestum)	~11" @ 6"	~34.6" @ 6"	20'	24'	25%	20%	22% V. Pr.	Very Low	Over-mature	No	X	Just across chain link fence but grow ing through. Crow ded, lop-sided, tangled, substantial deadw ood.
211	Xylosma (Xylosma congestum)	~6" @ 6"	~18.9" @ 6"	17'	22'	25%	20%	22% V. Pr.	Very Low	Over-mature	No	X	Just across chain link fence but grow ing through. Crow ded, lop-sided, tangled, substantial deadw ood.
212	Xylosma (Xylosma congestum)	~10" @ 6"	~31.4" @ 5"	18'	20'	25%	20%	22% V. Pr.	Very Low	Over-mature	No	X	Just across chain link fence but grow ing through. Crow ded, lop-sided, tangled, substantial deadw ood.
213	Xylosma (Xylosma congestum)	~8" @ 6"	~25.1" @ 5"	20'	20'	25%	20%	22% V. Pr.	Very Low	Over-mature	No	X	Just across chain link fence but grow ing through. Crow ded, lop-sided, tangled, substantial deadw ood.
214	Xylosma (Xylosma congestum)	~12" @ 6"	~37.7" @ 6"	15'	20'	25%	20%	22% V. Pr.	Very Low	Over-mature	No	X	Just across chain link fence but grow ing through. Crow ded, lop-sided, tangled, substantial deadw ood.
215	Xylosma (Xylosma congestum)	~9.5" @ 6"	29.9" @ 6"	20'	22'	25%	20%	22% V. Pr.	Very Low	Over-mature	No	X	Just across chain link fence but grow ing through. Crow ded, lop-sided, tangled, substantial deadw ood.
216	Xylosma (Xylosma congestum)	~9.0" @ 6"	~28.3" @ 6"	18	16'	25%	20%	22% V. Pr.	Very Low	Over-mature	No	X	Chain link fence at ~5-feet. Crow ded, lop-sided, tangled, substantial deadw ood.
217	Xylosma (Xylosma congestum)	7.2"	22.6"	15'	17'	25%	20%	22% V. Pr.	Very Low	Over-mature	No	X	Chain link fence at ~5-feet. Crow ded, lop-sided, tangled, substantial deadw ood.
218	Xylosma (Xylosma congestum)	7.5" @ 6"	23.6" @ 6"	12'	20'	25%	20%	22% V. Pr.	Very Low	Over-mature	No	X	Chain link fence at ~5-feet. Crow ded, lop-sided, tangled, substantial deadw ood.
219	Xylosma (Xylosma congestum)	8.6"	27.0"	15'	19'	25%	20%	22% V. Pr.	Very Low	Over-mature	No	X	Chain link fence at ~5-feet. Crow ded, lop-sided, tangled, substantial deadw ood.
220	Xylosma (Xylosma congestum)	7.5" @ 6"	23.6" @ 6"	13'	18'	25%	20%	22% V. Pr.	Very Low	Over-mature	No	X	Chain link fence at ~5-feet. Crow ded, lop-sided, tangled, substantial deadw ood.
221	Xylosma (Xylosma congestum)	5.1"	16.0"	11'	16'	25%	20%	22% V. Pr.	Very Low	Over-mature	No	X	Chain link fence at ~5-feet. Crow ded, lop-sided, tangled, substantial deadw ood.
222	Sw eetgum (Liquidambar styraciflua)	22.3"	70.1"	25'	45'	65%	45%	55% Fair	Mod.	Mature	Yes	X	At end chain link fence across area. Substantial ivy to 30-feet up trunk.

223	Xylosma (Xylosma congestum)	~14"	44.0"	15'	16'	30%	20%	25% V. Pr.	Very Low	Over-mature	No	X	About halfway between freeway on ramp and chain link fence.
224	Xylosma (Xylosma congestum)	~14"	44.0"	15'	16'	30%	20%	25% V. Pr.	Very Low	Over-mature	No	X	About halfway between freeway on ramp and chain link fence.
225	Xylosma (Xylosma congestum)	~13"	40.8"	15'	12'	30%	20%	25% V. Pr.	Very Low	Over-mature	No	X	About halfway between freeway on ramp and chain link fence.
226	Xylosma (Xylosma congestum)	~14"	44.0"	15'	18'	30%	20%	25% V. Pr.	Very Low	Over-mature	No	X	About halfway between freeway on ramp and chain link fence.
227	Xylosma (Xylosma congestum)	~14"	44.0"	15'	17'	30%	20%	25% V. Pr.	Very Low	Over-mature	No	X	About halfway between freeway on ramp and chain link fence.
228	Redbud, Eastern (Cercis canadensis)	5.4"	17.0"	9'	11'	55%	60%	57% Fair	Low	Semi-mature	No	Re?	About halfway between freeway on ramp and chain link fence. Mid-no-man's-land, along north edge on former CalTrans alignment.
229	Redbud, Eastern (Cercis canadensis)	5.3"	16.7"	9'	14'	50%	60%	55% Fair	Low	Semi-mature	No	Re?	Mid-no-man's-land, along north edge on former CalTrans alignment..
230	Redbud, Eastern (Cercis canadensis)	5.7"	17.9"	6'	11'	50%	50%	50% Fair	Low	Semi-mature	No	Re?	Mid-no-man's-land, along north edge on former CalTrans alignment..
231	Redbud, Eastern (Cercis canadensis)	4.2"	13.2"	5'	12'	45%	55%	50% Fair	Low	Semi-mature	No	Re?	Mid-no-man's-land, along north edge on former CalTrans alignment..
232	Redbud, Eastern (Cercis canadensis)	4.5"	14.3"	7'	16'	45%	55%	50% Fair	Low	Semi-mature	No	Re?	Mid-no-man's-land, along north edge on former CalTrans alignment..
233	Redbud, Eastern (Cercis canadensis)	4.4"	13.8"	5'	14'	45%	55%	50% Fair	Low	Semi-mature	No	Re?	Mid-no-man's-land, along north edge on former CalTrans alignment..
234	Redbud, Eastern (Cercis canadensis)	4.9"	15.4"	4'	12'	45%	55%	50% Fair	Low	Semi-mature	No	Re?	Mid-no-man's-land, along north edge on former CalTrans alignment..
235	Redbud, Eastern (Cercis canadensis)	4.3"	13.6"	5'	11'	45%	55%	50% Fair	Low	Semi-mature	No	Re?	Mid-no-man's-land, along north edge on former CalTrans alignment..
236	Redwood, Coast (Sequoia sempervirens)	6.4"	20.1"	6'	22"	75%	90%	82% Good	High	Mature	Yes	Re?	Mid-no-man's-land, along north edge on former CalTrans alignment..
237	Redwood, Coast (Sequoia sempervirens)	7.6"	23.8"	6'	26'	75%	90%	82% Good	High	Mature	Yes	Re?	Mid-no-man's-land, along north edge on former CalTrans alignment..
238	Redwood, Coast (Sequoia sempervirens)	7.2"	2.6"	6'	25'	75%	90%	82% Good	High	Mature	Yes	Re?	Mid-no-man's-land, along north edge on former CalTrans alignment..
239	Redwood, Coast (Sequoia sempervirens)	8.1"	25.5"	8'	28'	75%	90%	82% Good	High	Mature	Yes	Re?	Mid-no-man's-land, along north edge on former CalTrans alignment..
240	Redwood, Coast (Sequoia sempervirens)	9"	28.3"	6'	33'	75%	90%	82% Good	High	Mature	Yes	Re?	Mid-no-man's-land, along north edge on former CalTrans alignment..

241	Redwood, Coast (Sequoia sempervirens)	9.2"	28.9"	8'	35'	75%	90%	82% Good	High	Mature	Yes	Re?	Mid-no-man's-land, along north edge on former CalTrans alignment..
242	Redwood, Coast (Sequoia sempervirens)	8.4"	26.4"	9'	35'	75%	90%	82% Good	High	Mature	Yes	Re?	Mid-no-man's-land, along north edge on former CalTrans alignment..
243	Redwood, Coast (Sequoia sempervirens)	6.8"	21.4"	7'	28'	75%	90%	82% Good	High	Mature	Yes	Re?	Mid-no-man's-land, along north edge on former CalTrans alignment..
244	Redwood, Coast (Sequoia sempervirens)	7.7"	24.2"	6'	30'	75%	90%	82% Good	High	Mature	Yes	Re?	Mid-no-man's-land, along north edge on former CalTrans alignment..
245	Redwood, Coast (Sequoia sempervirens)	7.7"	24.2"	7'	28'	75%	90%	82% Good	High	Mature	Yes	Re?	Mid-no-man's-land, along north edge on former CalTrans alignment..
246	Redwood, Coast (Sequoia sempervirens)	8.7"	27.3"	6'	33'	75%	90%	82% Good	High	Mature	Yes	Re?	Mid-no-man's-land, along north edge on former CalTrans alignment..
247	Redwood, Coast (Sequoia sempervirens)	8.4"	26.4"	6'	34'	75%	90%	82% Good	High	Mature	Yes	Re?	Mid-no-man's-land, along north edge on former CalTrans alignment..
301	Oak, Southern Live (*Quercus virginiana)*	3.8"	11.9"	7'	13'	78%	66%	72% Good	High	Young	No	Re?	In 12' wide planter strip. Needs early structural pruning per Kempf/Gilman/Harris.
302	Oak, Southern Live (*Quercus virginiana)*	3.0"	9.4"	7'	16'	80%	75%	77% Good	High	Young	No	Re?	In 12' wide planter strip. Needs early structural pruning per Kempf/Gilman/Harris.
303	Oak, Southern Live (*Quercus virginiana)*	3.1"	9.7"	7'	16'	80%	75%	77% Good	High	Young	No	Re?	In parking lot planter endcap. Needs early structural pruning per Kempf/Gilman/Harris.
304	Oak, Southern Live (*Quercus virginiana)*	2.8"	8.8"	6'	14'	40%	60%	50% Fair	High	Young	No	Re?	In parking lot planter endcap (west). Needs early structural pruning per Kempf/Gilman/Harris.
305	Oak, Southern Live (*Quercus virginiana)*	3.5"	11.0"	8'	13'	70%	66%	68% Fair	High	Young	No	Re?	In parking lot planter endcap (east). Needs early structural pruning per Kempf/Gilman/Harris.
306	Elm, Chinese (*Ulmus parvifolia)*	1.7"	5.3"	6'	13'	66%	66%	66% Fair	High	Young	No	Re?	In 10' wide planter strip. Needs early structural pruning per Kempf/Gilman/Harris.
307	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	5'	14'	66%	66%	66% Fair	High	Young	No	Re?	In 10' wide planter strip. Needs early structural pruning per Kempf/Gilman/Harris.
308	Elm, Chinese (*Ulmus parvifolia)*	1.8"	5.7"	6'	12'	66%	66%	66% Fair	High	Young	No	Re?	In 10' wide planter strip. Needs early structural pruning per Kempf/Gilman/Harris.
309	London Planetree (*Platanus acerifolia)*	1.9"	6.0"	5'	12'	60%	70%	65% Fair	High	Young	No	Re?	In parking lot planter endcap (west). Needs early structural pruning per Kempf/Gilman/Harris.
310	London Planetree (*Platanus acerifolia)*	1.5"	4.7"	3'	10'	60%	70%	65% Fair	High	Young	No	Re?	In parking lot planter endcap (east). Needs early structural pruning per Kempf/Gilman/Harris.
311	Elm, Chinese (*Ulmus parvifolia)*	1.6"	5.0"	4'	11'	60%	70%	65% Fair	High	Young	No	Re?	In 10' wide planter strip. Needs early structural pruning per Kempf/Gilman/Harris.
312	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	3'	10'	60%	70%	65% Fair	High	Young	No	Re?	In 10' wide planter strip. Needs early structural pruning per Kempf/Gilman/Harris.
313	Elm, Chinese (*Ulmus parvifolia)*	1.6"	5.0"	4'	9'	60%	70%	65% Fair	High	Young	No	Re?	In 10' wide planter strip. Needs early structural pruning per Kempf/Gilman/Harris.

314	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	4'	9'	60%	70%	65% Fair	High	Young	No	Re?	In 10' wide planter strip. Needs early structural pruning per Kempf/Gilman/Harris.
315	Elm, Chinese (*Ulmus parvifolia)*	2.0"	6.3"	3'	9'	60%	70%	65% Fair	High	Young	No	Re?	In 10' wide planter strip. Needs early structural pruning per Kempf/Gilman/Harris.
316	London Planetree (*Platanus acerifolia)*	2.6"	8.2"	3'	18'	60%	70%	65% Fair	High	Young	No	Re?	In parking lot planter endcap (west). Needs early structural pruning per Kempf/Gilman/Harris.
317	London Planetree (*Platanus acerifolia)*	1.5"	4.7"	3'	10'	60%	60%	60% Fair	High	Young	No	Re?	In parking lot planter endcap (east). Needs early structural pruning per Kempf/Gilman/Harris. Trunk wound = scrape along trunk from 3' to 4'.
318	London Planetree (*Platanus acerifolia)*	.2.4"	7.5"	4'	13'	60%	65%	62% Fair	High	Young	No	Re?	In parking lot endcap west of generator enclosure, with fern pine hedge planted along enclosure chain link fence.
319	Elm, Chinese (*Ulmus parvifolia)*	1.7"	5.3"	6'	11'	70%	70%	70% Good	High	Young	No	Re?	In 30' wide planter strip at end of generator enclosure.
320	Elm, Chinese (*Ulmus parvifolia)*	1.6"	5.0"	5'	12'	40%	60%	50% Fair	High	Young	No	Re?	In 28' wide planter strip at end of generator enclosure. Foliage crown yellowing.
321	Elm, Chinese (*Ulmus parvifolia)*	1.6"	5.0"	5'	11'	70%	60%	65% Fair	High	Young	No	Re?	In planter strip 3' to parking lot curb.
322	London Planetree (*Platanus acerifolia)*	2.2"	6.9"	4'	14'	60%	70%	65% Fair	High	Young	No	Re?	In endcap planter east of generator enclosure.
323	Elm, Chinese (*Ulmus parvifolia)*	1.7"	5.3"	5'	10'	70%	65%	66% Fair	High	Young	No	Re?	In 30' wide planter strip at end of generator enclosure.
324	Elm, Chinese (*Ulmus parvifolia)*	1.7"	5.3"	5'	11'	60%	60%	60% Fair	High	Young	No	Re?	In 28' wide planter strip at end of generator enclosure; 6' to concrete walk. Yellowing foliage.
325	Elm, Chinese (*Ulmus parvifolia)*	1.6"	5.0"	5'	10'	65%	50%	57% Fair	High	Young	No	Re?	Concrete walk at 5'.
326	Elm, Chinese (*Ulmus parvifolia)*	1.6"	5.0"	4'	9'	40%	40%	40% Poor	High	Young	No	Re?	Concrete walk at 4'; yellowing, thinning foliage crown.
327	London Planetree (*Platanus acerifolia)*	2.2"	6.9"	4'	10'	65%	70%	67% Fair	High	Young	No	Re?	In west endcape at sidewalk.
328	London Planetree (*Platanus acerifolia)*	2.1"	6.6"	4'	12'	65%	70%	67% Fair	High	Young	No	Re?	In east endcap at sidewalk.
329	London Planetree (*Platanus acerifolia)*	2.4"	7.5"	4'	11'	65%	70%	67% Fair	High	Young	No	Re?	In west endcape at sidewalk.
330	Elm, Chinese (*Ulmus parvifolia)*	1.8"	5.7"	6'	10'	70%	65%	67% Fair	High	Young	No	Re?	In 12' wide planter strip.
331	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	5'	10'	68%	65%	67% Fair	High	Young	No	Re?	In 12' wide planter strip.
332	Elm, Chinese (*Ulmus parvifolia)*	1.9"	6.0"	6'	10'	66%	70%	67% Fair	High	Young	No	Re?	In 11 wide planter strip.
333	Elm, Chinese (*Ulmus parvifolia)*	1.8"	5.7"	5'	10'	66%	75%	70% Fair	High	Young	No	Re?	In 10' wide planter strip.
334	Elm, Chinese (*Ulmus parvifolia)*	1.7"	5.3"	4'	9'	66%	75%	67% Fair	High	Young	No	Re?	In 10' wide planter strip.
335	London Planetree (*Platanus acerifolia)*	2.2"	6.9"	5'	12'	70%	80%	75% Good	High	Young	No	Re?	In parking lot planter endcap along drive aisle (west).
336	London Planetree (*Platanus acerifolia)*	2.1"	6.6"	6'	13'	70%	80%	75% Good	High	Young	No	Re?	In parking lot planter endcap along drive aisle (east).

337	London Planetree (*Platanus acerifolia)*	1.7"	5.3"	3'	9'	70%	70%	70% Good	High	Young	No	Re?	In parking lot planter endcap along drive aisle (west).
338	London Planetree (*Platanus acerifolia)*	1.6"	5.0"	4'	9'	70%	70%	70% Good	High	Young	No	Re?	In parking lot planter endcap along drive aisle (east).
339	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	6'	11'	66%	70%	68% Fair	High	Young	No	Re?	In 10' wide planter strip.
340	Elm, Chinese (*Ulmus parvifolia)*	1.7"	5.3"	6'	10'	55%	50%	52% Fair	High	Young	No	Re?	In 10' wide planter strip. Foliage crown yellowing.
341	London Planetree (*Platanus acerifolia)*	2.0"	6.3"	3'	9'	70%	70%	70% Good	High	Young	No	Re?	In parking lot planter endcap along drive aisle (west) near Terra Bella.
342	London Planetree (*Platanus acerifolia)*	1.6"	5.0"	3'	10'	70%	70%	70% Good	High	Young	No	Re?	In parking lot planter endcap along drive aisle (east) near Terra Bella.
343	London Planetree (*Platanus acerifolia)*	1.6"	5.0"	4'	11'	70%	60%	65% Fair	High	Young	No	Re?	In parking lot planter endcap along drive aisle (west) near Terra Bella.
344	London Planetree (*Platanus acerifolia)*	1.5"	4.7"	4'	10'	70%	65%	67% Fair	High	Young	No	Re?	In parking lot planter endcap along drive aisle (east) near Terra Bella.
345	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	4'	11'	60%	50%	55% Fair	High	Young	No	Re?	In 10' wide planter strip. Yellowing foliage.
346	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	4'	10'	65%	60%	62% Fair	High	Young	No	Re?	In 10' wide planter strip.
347	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	4'	10'	65%	60%	62% Fair	High	Young	No	Re?	In 10' wide planter strip.
348	London Planetree (*Platanus acerifolia)*	2.5"	7.9"	3'	16'	75%	80%	77% Good	High	Young	No	Re?	In parking lot planter endcap along drive aisle (west).
349	London Planetree (*Platanus acerifolia)*	1.5"	4.7"	2'	8'	70%	70%	70% Good	High	Young	No	Re?	In parking lot planter endcap along drive aisle (east).
350	London Planetree (*Platanus acerifolia)*	1.5"	4.7"	2'	8'	70%	70%	70% Good	High	Young	No	Re?	In parking lot planter endcap along drive aisle (west).
351	London Planetree (*Platanus acerifolia)*	1.5"	4.7"	3'	9'	70%	70%	70% Good	High	Young	No	Re?	In parking lot planter endcap along drive aisle (east).
352	London Planetree (*Platanus acerifolia)*	1.5"	4.7"	3'	10'	70%	70%	70% Good	High	Young	No	Re?	In parking lot bumpout planter along east side site fence.
353	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	5'	10'	65%	65%	65% Fair	High	Young	No	Re?	In 10' wide planter strip.
354	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	5'	10'	65%	65%	65% Fair	High	Young	No	Re?	In 10' wide planter strip.
355	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	4'	10'	65%	65%	65% Fair	High	Young	No	Re?	In 10' wide planter strip.
356	Elm, Chinese (*Ulmus parvifolia)*	1.9"	6.0"	4'	11'	65%	65%	65% Fair	High	Young	No	Re?	In 10' wide planter strip.
357	London Planetree (*Platanus acerifolia)*	1.9"	6.0"	3'	11'	70%	60%	65% Fair	High	Young	No	Re?	In parking lot planter endcap along concrete walk (west).

358	London Planetree (*Platanus acerifolia)*	2.0"	6.3"	3'	10'	75%	65%	70% Good	High	Young	No	Re?	In parking lot planter endcap along concrete walk (east).
359	London Planetree (*Platanus acerifolia)*	1.6"	5.0"	4'	10'	60%	50%	55% Fair	High	Young	No	Re?	In parking lot bumpout planter along east side site fence.
360	Elm, Chinese (*Ulmus parvifolia)*	1.9"	6.0"	6'	13'	65%	65%	65% Fair	High	Young	No	Re?	In 10' wide planter strip.
361	Elm, Chinese (*Ulmus parvifolia)*	1.6"	5.0"	6'	12'	65%	65%	65% Fair	High	Young	No	Re?	In 10' wide planter strip.
362	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	6'	12'	50%	50%	50% Fair	High	Young	No	Re?	In 10' wide planter strip; yellowing foliage.
363	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	5'	12'	60%	50%	55% Fair	High	Young	No	Re?	In 10' wide planter strip.
364	London Planetree (*Platanus acerifolia)*	2.0"	6.3"	3'	11'	70%	65%	67% Fair	High	Young	No	Re?	In parking lot planter endcap along concrete walk (west).
365	London Planetree (*Platanus acerifolia)*	2.0"	6.3"	3'	11'	70%	65%	67% Fair	High	Young	No	Re?	In parking lot planter endcap along concrete walk (east).
366	London Planetree (*Platanus acerifolia)*	1.6"	5.0"	3'	11'	70%	70%	70% Good	High	Young	No	Re?	In parking lot bumpout planter along east side site fence.
367	Elm, Chinese (*Ulmus parvifolia)*	1.6"	5.0"	4'	11'	35%	40%	37% Poor	High	Young	No	K	In 10' wide planter strip between properties with day lilies. Foliage wilting.
368	Elm, Chinese (*Ulmus parvifolia)*	1.7"	5.3"	4'	10'	40%	40%	40% Poor	High	Young	No	K	In 10' wide planter strip between properties with day lilies. Foliage crown thinning.
369	Elm, Chinese (*Ulmus parvifolia)*	1.4"	4.4"	5'	10'	35%	40%	37% Poor	High	Young	No	K	In 10' wide planter strip between properties with day lilies. Foliage crown thinning.
370	Elm, Chinese (*Ulmus parvifolia)*	1.4"	4.4"	5'	9'	40%	40%	40% Poor	High	Young	No	K	In 10' wide planter strip between properties with day lilies. Foliage crown thinning.
371	London Planetree (*Platanus acerifolia)*	1.6"	5.0"	3'	10'	70%	68%	69% Fair	High	Young	No	Re?	In 10' wide planter strip' bumpout between properties with day lilies.
372	Elm, Chinese (*Ulmus parvifolia)*	1.4"	4.4"	4'	10'	40%	50%	45% Poor	High	Young	No	K	In 10' wide planter strip between properties.
373	Elm, Chinese (*Ulmus parvifolia)*	1.3"	4.1"	5'	10'	35%	50%	42% Poor	High	Young	No	K	In 10' wide planter strip between properties.
374	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	4'	10'	40%	50%	45% Poor	High	Young	No	K	In 10' wide planter strip between properties.
375	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	4'	10'	30%	50%	40% Poor	High	Young	No	K	In widened planter strip between properties. Yellowing foliage.
376	Elm, Chinese (*Ulmus parvifolia)*	1.6"	5.0"	4'	11'	30%	55%	42% Poor	High	Young	No	X	In widened planter strip between properties. Yellowing foliage.
377	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	5'	11'	30%	55%	42% Poor	High	Young	No	X	In 10' wide planter strip between properties across drive aisle from generator enclosure. Thinning foliage crown..
378	Elm, Chinese (*Ulmus parvifolia)*	1.4"	4.4"	4'	10'	40%	40%	40% Poor	High	Young	No	X	In 10' wide planter strip between properties across drive aisle from generator enclosure.
379	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	4'	10'	40%	40%	40% Poor	High	Young	No	X	In 10' wide planter strip between properties. Thinning foliage crown..
380	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	5'	8'	30%	30%	30% Poor	High	Young	No	X	In 10' wide planter strip between properties. Very yellow foliage crown..

381	London Planetree (*Platanus acerifolia)*	1.6"	5.0"	3'	8'	65%	65%	65% Fair	High	Young	No	Re?	In parking lot bumpout betw een properties.
382	Elm, Chinese (*Ulmus parvifolia)*	1.4"	4.4"	4'	7'	65%	60%	62% Fair	High	Young	No	Re?	In 10' w ide planter strip betw een properties.
383	Elm, Chinese (*Ulmus parvifolia)*	1.7"	5.3"	4'	7'	70%	65%	67% Fair	High	Young	No	Re?	In 10' w ide planter strip betw een properties.
384	Brisbane Box (*Lophostemon confertus*)	1.3"	4.1"	3'	11'	70%	65%	67% Fair	High	Young	No	Re?	In planter endcap (south end).
385	Brisbane Box (*Lophostemon confertus*)	1.1"	3.5"	3'	11'	70%	65%	67% Fair	High	Young	No	Re?	In planter endcap (north end).
386	Brisbane Box (*Lophostemon confertus*)	1.1"	3.5"	3'	11'	65%	65%	65% Fair	High	Young	No	Re?	Across drive aisle in endcap planter (south)
387	Brisbane Box (*Lophostemon confertus*)	0.8"	2.5"	3'	11'	65%	65%	65% Fair	High	Young	No	Re?	Across drive aisle in endcap planter (north)
388	London Planetree (*Platanus acerifolia)*	1.7"	5.3"	3'	10'	70%	70%	70% Good	High	Young	No	Re?	In parking lot bumpout at existing job site trailer location for Dome.
389	Elm, Chinese (*Ulmus parvifolia)*	1.1"	3.5"	3'	10'	65%	65%	65% Fair	High	Young	No	Re?	At end of bio-sw ale in parking lot behind Dome's job site trailer.
390	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	4'	9'	50%	50%	50% Fair	High	Young	No	Re?	Along bio-sw ale in parking lot behind Dome's job site trailer.
391	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	4'	8'	55%	55%	55% Fair	High	Young	No	Re?	Along bio-sw ale in parking lot behind Dome's job site trailer.
392	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	4'	8'	55%	55%	55% Fair	High	Young	No	Re?	Along bio-sw ale in parking lot behind Dome's job site trailer.
393	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	4'	10'	55%	55%	55% Fair	High	Young	No	Re?	Along bio-sw ale in parking lot behind Dome's job site trailer.
394	Elm, Chinese (*Ulmus parvifolia)*	1.1"	3.5"	3'	8'	55%	55%	55% Fair	High	Young	No	Re?	Along bio-sw ale in parking lot behind Dome's job site trailer.
395	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	4'	7'	55%	55%	55% Fair	High	Young	No	Re?	Along bio-sw ale in parking lot behind Dome's job site trailer.
396	Straw berry Tree (*Arbutus 'Marina'*)	1.2"	3.8"	2'	9'	60%	60%	60% Fair	High	Young	No	Re?	In parking lot endcap at end of job site trailers. Very lop-sided foliage crow n.
397	Straw berry Tree (*Arbutus 'Marina'*)	1.4"	4.4"	2'	10'	70%	65%	67% Fair	High	Young	No	Re?	In parking lot endcap across drive aisle from #397 (tow ard the new phase I building).
398	Sw eetgum (*Liquidambar styraciflua*)	1.5"	4.7"	3'	10'	70%	70%	70% Good	High	Young	No	Re?	North of new phase 1 building, 2' to sidew alk. Keep low er temporary branches at least tw o more years.
399	Sw eetgum (*Liquidambar styraciflua*)	2.7"	8.5"	4'	12'	70%	70%	70% Good	High	Young	No	Re?	North of new phase 1 building, 2' to sidew alk, in 3'x3' grated cutout. Keep low er temporary branches at least tw o more years. But remove nursery stake to avoid continuing rubbing w ound on trunk.
400	Sw eetgum (*Liquidambar styraciflua*)	2.5"	7.9"	2'	11'	65%	60%	62% Fair	High	Young	No	Re?	North of new phase 1 building, 2' to sidew alk, in 3'x3' grated cutout. Keep low er temporary branches at least tw o more years. But remove nursery stake to avoid continuing rubbing w ound on trunk.
401	Sw eetgum (*Liquidambar styraciflua*)	2.6"	8.2"	3'	11'	65%	60%	62% Fair	High	Young	No	Re?	North of new phase 1 building, 2' to sidew alk, in 3'x3' grated cutout. Keep low er temporary branches at least tw o more years. But remove nursery stake to avoid continuing rubbing w ound on trunk.

402	Sweetgum (*Liquidambar styraciflua*)	2.3"	7.2"	3'	12'	65%	60%	62% Fair	High	Young	No	Re?	North of new phase 1 building, 2' to sidewalk, in 3'x3' grated cutout. Keep lower temporary branches at least two more years. But remove nursery stake to avoid continuing rubbing wound on trunk.
403	London Planetree (*Platanus acerifolia)*	2.5"	7.9"	4'	14'	70%	70%	70% Good	High	Young	No	Re?	In parking lot bumpout.
404	Sweetgum (*Liquidambar styraciflua*)	3.0"	9.4"	2'	12'	65%	60%	62% Fair	High	Young	No	Re?	North of new phase 1 building, 2' to sidewalk, in 3'x3' grated cutout. Keep lower temporary branches at least two more years. But remove nursery stake to avoid continuing rubbing wound on trunk.
405	Sweetgum (*Liquidambar styraciflua*)	2.7"	8.5"	2'	11'	65%	60%	62% Fair	High	Young	No	Re?	North of new phase 1 building, 2' to sidewalk, in 3'x3' grated cutout. Keep lower temporary branches at least two more years. But remove nursery stake to avoid continuing rubbing wound on trunk.
406	Sweetgum (*Liquidambar styraciflua*)	2.7"	8.5"	3'	11'	65%	60%	62% Fair	High	Young	No	Re?	North of new phase 1 building, 2' to sidewalk, in 3'x3' grated cutout. Keep lower temporary branches at least two more years. But remove nursery stake to avoid continuing rubbing wound on trunk.
407	Oak, Southern Live (*Quercus virginiana)*	3.7"	11.6"	6'	20'	60%	60%	60% Fair	High	Young	No	Re?	In start of semicircle at NE corner of new phase 1 building. In sidewalk, 2' to walk, 2' to parking lot drive aisle.
408	Oak, Southern Live (*Quercus virginiana)*	4.0"	12.6"	7'	20'	65%	65%	65% Fair	High	Young	Yes	Re?	In semicircle at NE corner of new phase 1 building. In sidewalk, 2' to walk, 2' to parking lot drive aisle.
409	Oak, Southern Live (*Quercus virginiana)*	3.9"	12.2"	6'	18'	60%	60%	60% Fair	High	Young	Yes	Re?	In semicircle along east side of new phase 1 building. In sidewalk, 2' to walk, 2' to parking lot drive aisle.
410	Oak, Southern Live (*Quercus virginiana)*	3.9"	12.2"	7'	20'	60%	60%	60% Fair	High	Young	Yes	Re?	In semicircle along east side of new phase 1 building. In sidewalk, 2' to walk, 2' to parking lot drive aisle.
411	Oak, Southern Live (*Quercus virginiana)*	3.5"	11.0"	6'	20'	65%	65%	65% Fair	High	Young	No	Re?	In semicircle along east side of new phase 1 building. In sidewalk, 2' to walk, 2' to parking lot drive aisle.
412	Brisbane Box (*Lophostemon confertus*)	2.0"	6.3"	5'	20'	65%	65%	65% Fair	High	Young	No	Re?	At east side of new phase 1 building.
413	Brisbane Box (*Lophostemon confertus*)	1.8"	5.7"	5'	20'	65%	65%	65% Fair	High	Young	No	Re?	At east side of new phase 1 building.
414	Brisbane Box (*Lophostemon confertus*)	1.1"	3.5"	3'	10'	65%	65%	65% Fair	High	Young	No	Re?	At east side of new phase 1 building.
415	Brisbane Box (*Lophostemon confertus*)	1.1"	3.5"	4'	12'	65%	65%	65% Fair	High	Young	No	Re?	At east side of new phase 1 building.
416	Oak, Southern Live (*Quercus virginiana)*	3.0"	9.4"	6'	20'	65%	70%	67% Fair	High	Young	No	Re?	In semicircle along east side of new phase 1 building. In sidewalk, 2' to walk, 2' to parking lot drive aisle.
417	Oak, Southern Live (*Quercus virginiana)*	3.3"	10.4"	5'	20'	65%	70%	67% Fair	High	Young	No	Re?	In semicircle along east side of new phase 1 building. In sidewalk, 2' to walk, 2' to parking lot drive aisle.
418	Maple, Japanese (*Acer palmatum)*	3.5" @ 6"	11.0" @ 6"	6'	12'	75%	60%	67% Fair	High	Young	No	Re?	Southeast of new phase 1 building.

419	Crape Myrtle (*Lagerstroemia indica*)	1.5"	4.7"	3'	9'	70%	70%	70% Good	High	Young	No	Re?	Southeast of new phase 1 building.
420	Crape Myrtle (*Lagerstroemia indica*)	1.5"	4.7"	3'	12'	70%	70%	70% Good	High	Young	No	Re?	Southeast of new phase 1 building.
421	Crape Myrtle (*Lagerstroemia indica*)	1.8"	5.7"	3'	10'	70%	70%	70% Good	High	Young	No	Re?	Southeast of new phase 1 building.
422	Crape Myrtle (*Lagerstroemia indica*)	1.4"	4.4"	3'	10'	70%	70%	70% Good	High	Young	No	Re?	Southeast of new phase 1 building.
423	Crape Myrtle (*Lagerstroemia indica*)	1.6"	5.0"	3'	10'	70%	70%	70% Good	High	Young	No	Re?	Southeast of new phase 1 building.
424	Crape Myrtle (*Lagerstroemia indica*)	1.5"	4.7"	3'	10'	70%	70%	70% Good	High	Young	No	Re?	Southeast of new phase 1 building.
425	Crape Myrtle (*Lagerstroemia indica*)	1.5"	4.7"	3'	9'	70%	70%	70% Good	High	Young	No	Re?	Southeast of new phase 1 building.
426	Crape Myrtle (*Lagerstroemia indica*)	1.7"	5.3"	3'	8'	70%	70%	70% Good	High	Young	No	Re?	Southeast of new phase 1 building.
427	Poplar, Lombardy (*Populus nigra 'Italica'*)	2.5" @ 6"	7.9" @ 6"	3'	17'	60%	60%	60% Fair	High	Young	No	Re?	North of the current volleyball sand lot. Nursery stake is still lashed to the trunk causing a rubbing wound.
428	Poplar, Lombardy (*Populus nigra 'Italica'*)	4.1" @ 0"	12.9" @ 0"	3'	18'	60%	60%	60% Fair	High	Young	No	Re?	At the north corner of the current volleyball sand lot.
429	Poplar, Lombardy (*Populus nigra 'Italica'*)	2.7" @ 0"	8.5" @ 0"	3'	15'	60%	60%	60% Fair	High	Young	No	Re?	Along the north side of the current volleyball sand lot.
430	Poplar, Lombardy (*Populus nigra 'Italica'*)	3.0"	9.4"	3'	15'	60%	60%	60% Fair	High	Young	No	Re?	Along the north side of the current volleyball sand lot.
431	Poplar, Lombardy (*Populus nigra 'Italica'*)	3.5"	11.0"	3'	15'	60%	60%	60% Fair	High	Young	No	Re?	Along the north side of the current volleyball sand lot.
432	Poplar, Lombardy (*Populus nigra 'Italica'*)	3.5"	11.0"	3'	13'	60%	60%	60% Fair	High	Young	No	Re?	Along the north side of the current volleyball sand lot.
433	Poplar, Lombardy (*Populus nigra 'Italica'*)	3.2"	10.0"	3'	15'	60%	60%	60% Fair	High	Young	No	Re?	At the northeast corner of the current volleyball sand lot.
434	Poplar, Lombardy (*Populus nigra 'Italica'*)	3.5"	11.0"	3'	12'	60%	60%	60% Fair	High	Young	No	Re?	At the southeast corner of the current volleyball sand lot.
435	Poplar, Lombardy (*Populus nigra 'Italica'*)	3.0"	9.4"	3'	13'	60%	60%	60% Fair	High	Young	No	Re?	At the southeast corner of the current volleyball sand lot.
436	Poplar, Lombardy (*Populus nigra 'Italica'*)	3.5"	11.0"	3'	11'	60%	60%	60% Fair	High	Young	No	Re?	At the southwest corner of the current volleyball sand lot.

437	Poplar, Lombardy (*Populus nigra 'Italica'*)	2.7"	8.5"	3'	11'	60%	60%	60% Fair	High	Young	No	Re?	At the southw est corner of the current volleyball sand lot.
438	Poplar, Carolina (*Populus-×-canadensi*)	2.3"	7.2"	6'	20'	75%	70%	72% Good	High	Young	No	Re?	At the drive aisle planter strip at the end of the current volleyball sand lot.
439	Poplar, Carolina (*Populus-×-canadensi*)	2.3"	7.2"	6'	18'	75%	70%	72% Good	High	Young	No	Re?	At the drive aisle planter strip at the end of the current volleyball sand lot.
440	Poplar, Carolina (*Populus-×-canadensi*)	2.5"	7.9"	7'	19'	80%	70%	75% Good	High	Young	No	Re?	In a planter bumpout for the drive aisle at the northw est end of the current volleyball sand lot.
441	Poplar, Carolina (*Populus-×-canadensi*)	2.2"	6.9"	4'	20'	75%	70%	72% Good	High	Young	No	Re?	In the outer perimeter northw est of the current volleyball sand lot.
442	Poplar, Carolina (*Populus-×-canadensi*)	2.5"	7.9"	5'	20'	80%	70%	75% Good	High	Young	No	Re?	In the outer perimeter northw est of the current volleyball sand lot.
443	Poplar, Carolina (*Populus-×-canadensi*)	3.1"	9.7"	5'	18'	80%	70%	75% Good	High	Young	No	Re?	In a planter bumpout north of the current volleyball sand lot.
444	Poplar, Carolina (*Populus-×-canadensi*)	2.1"	6.6"	4'	20'	65%	70%	67% Fair	High	Young	No	Re?	In a planter bumpout north of the current volleyball sand lot.
445	Crape Myrtle (*Lagerstroemia indica*)	2.5"	7.9"	4'	18'	60%	70%	65% Fair	High	Young	No	Re?	In the outer perimeter northw est of the current volleyball sand lot.
446	Poplar, Carolina (*Populus-×-canadensi*)	2.3"	7.2"	4'	20'	70%	70%	70% Good	High	Young	No	Re?	North of current basketball surface (tow ard highw ay 101).
447	Poplar, Carolina (*Populus-×-canadensi*)	2.1"	6.6"	4'	20'	65%	70%	67% Fair	High	Young	No	Re?	North of current basketball surface (tow ard highw ay 101).
448	Poplar, Carolina (*Populus-×-canadensi*)	2.8"	8.8"	6'	18'	75%	70%	72% Good	High	Young	No	Re?	North of current basketball surface (tow ard highw ay 101).
449	Poplar, Carolina (*Populus-×-canadensi*)	2.6"	8.2"	5'	20'	75%	70%	72% Good	High	Young	No	Re?	In parking lot bumpout near current basketball surface.
450	Poplar, Carolina (*Populus-×-canadensi*)	2.4"	7.5"	5'	20'	70%	70%	70% Good	High	Young	No	Re?	At northeast corner of current basketball surface.
451	Poplar, Carolina (*Populus-×-canadensi*)	2.3"	7.2"	4'	18'	70%	70%	70% Good	High	Young	No	Re?	In parking lot bumpout near northeast corner of current basketball surface.
452	Poplar, Carolina (*Populus-×-canadensi*)	2.8"	8.8"	5'	19'	70%	70%	70% Good	High	Young	No	Re?	In parking lot bumpout on east side of current basketball surface.
453	Poplar, Carolina (*Populus-×-canadensi*)	2.5"	7.9"	5'	18'	75%	70%	72% Good	High	Young	No	Re?	In parking lot bumpout; 16' to east chain link site fence and east site curb (off end of volleyball sand lot).
454	Poplar, Carolina (*Populus-×-canadensi*)	2.5"	7.9"	6'	17'	70%	70%	70% Good	High	Young	No	Re?	In parking lot bumpout; 16' to east chain link site fence and east site curb (off end of basketball surface).
455	Poplar, Carolina (*Populus-×-canadensi*)	2.0"	6.3"	5'	15'	70%	70%	70% Good	High	Young	No	Re?	In w hat has become a planter strip in the north east corner; 16' to chain link site fence.

456	Poplar, Carolina (*Populus-×-canadensi*)	2.0"	6.3"	4'	15'	70%	70%	70% Good	High	Young	No	Re?	In w hat has become a planter strip in the north east corner; 17' to chain link site fence.
457	Poplar, Carolina (*Populus-×-canadensi*)	2.9"	9.1"	5'	20'	70%	70%	70% Good	High	Young	No	Re?	In w hat has become a planter strip in the north east corner; 27' to chain link site fence (w ith curb actually now about 12 more feet farther east.
458	Chitalpa(??) (*Chitalpa tashkentensis??*)	1.9"	6.0"	5'	17'	45%	55%	50% Fair	High	Young	No	K	Off Linda Vista Street entrance drivew ay, 13' BOC; 8' to north property line.
459	Chitalpa(??) (*Chitalpa tashkentensis??*)	1.8"	5.7"	5'	15'	40%	50%	45% Poor	High	Young	No	K	Off Linda Vista Street entrance drivew ay, 28' BOC; 1' to site fence/curb.
460	Chitalpa(??) (*Chitalpa tashkentensis??*)	2.0"	6.3"	5'	16'	40%	50%	45% Poor	High	Young	No	K	Off Linda Vista Street entrance drivew ay, 23' BOC; 7' to drivew ay; 8' to site fence/curb.
461	Chitalpa(??) (*Chitalpa tashkentensis??*)	2.0"	6.3"	5'	15'	45%	55%	50% Fair	High	Young	No	Re?	Off Linda Vista Street entrance drivew ay,14' BOC;25' to drivew ay.
462	Chitalpa(??) (*Chitalpa tashkentensis??*)	1.5"	4.7"	3'	12'	30%	50%	40% Poor	High	Young	No	Re?	Off Linda Vista Street entrance drivew ay, 9' to south side property line shared w ith private school parking lot. Nursery stake still lashed to trunk = rubbing w ound.
463	Cedar, Western Red (*Thuja plicata)*	5.5" @ 6"	17.3" @ 6"	4'	11'	66%	90%	77% Good	High	Young	No	Re?	Along bio-sw ale betw een this property and private school parking lot; 26' BOC (Linda Vista).
464	Cedar, Western Red (*Thuja plicata)*	6.2" @ 6"	19.5" @ 6"	4'	11'	66%	90%	77% Good	High	Young	No	Re?	Along bio-sw ale betw een this property and private school parking lot; 44' BOC (Linda Vista).
465	Cedar, Western Red (*Thuja plicata)*	5.1" @ 6"	16.0" @ 6"	4'	11'	66%	90%	77% Good	High	Young	No	Re?	Along bio-sw ale betw een this property and private school parking lot; 84' BOC (Linda Vista).
466	Cedar, Western Red (*Thuja plicata)*	6.0" @ 6"	18.8" @ 6"	4'	10'	55%	90%	65% Fair	High	Young	No	Re?	Along bio-sw ale betw een this property and private school parking lot; 109' BOC (Linda Vista).
467	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	5'	12'	55%	50%	52% Fair	High	Young	No	K	Along east property line, outside of site chain link fence; 4' to our current parking lot curb.
468	Elm, Chinese (*Ulmus parvifolia)*	1.7"	5.3"	4'	13'	60%	40%	50% Fair	High	Young	No	K	Along east property line, outside of site chain link fence; 4' to our current parking lot curb.
469	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	4'	12'	60%	50%	55% Fair	High	Young	No	K	Along east property line, outside of site chain link fence; 4' to our current parking lot curb.
470	Elm, Chinese (*Ulmus parvifolia)*	1.4"	4.4"	4'	14'	50%	50%	50% Fair	High	Young	No	K	Along east property line, outside of site chain link fence; 4' to our current parking lot curb.
471	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	4'	13'	50%	50%	50% Fair	High	Young	No	K	Along east property line, outside of site chain link fence; 4' to our current parking lot curb. Behind corner of private school building.
472	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	4'	13'	50%	50%	50% Fair	High	Young	No	K	Along east property line, outside of site chain link fence; 4' to our current parking lot curb. Behind private school building.
473	Elm, Chinese (*Ulmus parvifolia)*	1.6"	5.0"	5'	13'	50%	50%	50% Fair	High	Young	No	K	Along east property line, outside of site chain link fence; 4' to our current parking lot curb. Behind private school building.
474	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	4'	12'	50%	50%	50% Fair	High	Young	No	K	Along east property line, outside of site chain link fence; 4' to our current parking lot curb. Behind private school building.
475	Elm, Chinese (*Ulmus parvifolia)*	1.6"	5.0"	4'	13'	50%	50%	50% Fair	High	Young	No	K	Along east property line, outside of site chain link fence; 4' to our current parking lot curb. Behind private school building.
476	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	4'	12'	50%	50%	50% Fair	High	Young	No	K	Along east property line, outside of site chain link fence; 4' to our current parking lot curb. Behind corner of private school building.

477	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	4'	13'	50%	50%	50% Fair	High	Young	No	K	Along east property line, outside of site chain link fence; 4' to our current parking lot curb.
478	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	4'	13'	60%	60%	60% Fair	High	Young	No	K	Along east property line, outside of site chain link fence; 4' to our current parking lot curb.
479	Elm, Chinese (*Ulmus parvifolia)*	1.4"	4.4"	4'	13'	60%	60%	60% Fair	High	Young	No	K	Along east property line, outside of site chain link fence; 4' to our current parking lot curb.
480	Elm, Chinese (*Ulmus parvifolia)*	1.6"	5.0"	5'	14'	60%	60%	60% Fair	High	Young	No	K	Along east property line, outside of site chain link fence; 4' to our current parking lot curb. At north back corner of neighbor's office building; 35' BOC (Terra Bella).
481	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	5'	14'	60%	60%	60% Fair	High	Young	No	Re?	Along east property line, outside of site chain link fence; 4' to our current parking lot curb.
482	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	4'	13'	60%	60%	60% Fair	High	Young	No	Re?	Along east property line, outside of site chain link fence; 4' to our current parking lot curb.
483	Elm, Chinese (*Ulmus parvifolia)*	1.5"	4.7"	3'	10'	25%	30%	27% Poor	High	Young	No	Re?	Along east property line, outside of site chain link fence; 4' to our current parking lot curb. At south back corner of neighbor's office building; 35' BOC (Terra Bella).
484	Brisbane Box (*Lophostemon confertus*)	1.2"	3.8"	3'	12'	80%	90%	85% Good	High	Young	No	K	Along Terra Bella frontage planter strip, at Linda Vista end; 17' BOC; 6' to sidew alk. Nursery stake still lashed to trunk - please remove before the rubbing w ound w orsens.
485	Brisbane Box (*Lophostemon confertus*)	1.2"	3.8"	3'	12'	80%	90%	85% Good	High	Young	No	K	Along Terra Bella frontage planter strip; 17' BOC; 6' to sidew alk. Nursery stake still lashed to trunk - please remove before the rubbing w ound w orsens.
486	Brisbane Box (*Lophostemon confertus*)	1.5"	4.7"	3'	12'	80%	90%	85% Good	High	Young	No	K	Along Terra Bella frontage planter strip; 17' BOC; 6' to sidew alk. Nursery stake still lashed to trunk - please remove before the rubbing w ound w orsens.
487	Brisbane Box (*Lophostemon confertus*)	1.6"	5.0"	3'	12'	80%	90%	85% Good	High	Young	No	K	Along Terra Bella frontage planter strip; 17' BOC; 6' to sidew alk. Nursery stake still lashed to trunk - please remove before the rubbing w ound w orsens.
488	Brisbane Box (*Lophostemon confertus*)	1.1"	3.5"	3'	11'	75%	90%	82% Good	High	Young	No	K	Along Terra Bella frontage planter strip; 17' BOC; 6' to sidew alk.
489	Brisbane Box (*Lophostemon confertus*)	1.1"	3.5"	3'	10'	75%	90%	82% Good	High	Young	No	K	Along Terra Bella frontage planter strip; 17' BOC; 6' to sidew alk.
490	Brisbane Box (*Lophostemon confertus*)	1.5"	4.7"	3'	12'	77%	90%	83% Good	High	Young	No	K	Along Terra Bella frontage planter strip; 17' BOC; 6' to sidew alk.
491	Oak, Southern Live (*Quercus virginiana)*	3.3"	10.4"	5'	17'	80%	90%	65% Fair	High	Young	No	K	Along Terra Bella frontage planter strip at drivew ay off street; 21' BOC; 10' to sidew alk; 4' to current site fence. Tel Comm riser/vault at 4'.
492	Oak, Southern Live (*Quercus virginiana)*	3.0"	9.4"	5'	16'	66%	65%	65% Fair	High	Young	No	K	Along Terra Bella frontage planter strip at drivew ay off street; 9' to site drivew ay curb; 56' BOC (TB). Nursery stake lashed to trunk still creating rubbing w ound.
493	Oak, Southern Live (*Quercus virginiana)*	2.9"	9.1"	4'	15'	65%	65%	65% Fair	High	Young	No	K	Along Terra Bella frontage planter strip at drivew ay off street; 8' to site drivew ay curb; 18' BOC (TB); 7' to sidew alk. Nursery stake lashed to trunk still creating rubbing w ound.
494	Brisbane Box (*Lophostemon confertus*)	1.5"	4.7"	4'	13'	68%	90%	77% Good	High	Young	No	K	Along Terra Bella frontage planter strip; 17' BOC; 5' to sidew alk.

495	Brisbane Box (*Lophostemon confertus*)	1.6"	5.0"	4'	13'	65%	90%	74% Good	High	Young	No	K	Along Terra Bella frontage planter strip; 17' BOC; 5' to sidew alk.
496	Brisbane Box (*Lophostemon confertus*)	1.7"	5.3"	4'	13'	65%	90%	74% Good	High	Young	No	K	Along Terra Bella frontage planter strip; 17' BOC; 5' to sidew alk.
497	Brisbane Box (*Lophostemon confertus*)	1.6"	5.0"	4'	13'	65%	90%	74% Good	High	Young	No	K	Along Terra Bella frontage planter strip; 17' BOC; 5' to sidew alk.
498	Brisbane Box (*Lophostemon confertus*)	1.7"	5.3"	3'	13'	65%	90%	74% Good	High	Young	No	K	Along Terra Bella frontage planter strip; 17' BOC; 5' to sidew alk.
499	Brisbane Box (*Lophostemon confertus*)	1.0"	3.1"	2'	10'	65%	90%	74% Good	High	Young	No	K	Along Terra Bella frontage planter strip; 17' BOC; 5' to sidew alk.
500	Brisbane Box (*Lophostemon confertus*)	1.0"	3.1"	3'	10'	65%	90%	74% Good	High	Young	No	K	Along Terra Bella frontage planter strip; 17' BOC; 5' to sidew alk.
501	Brisbane Box (*Lophostemon confertus*)	1.1"	3.5"	2'	10'	65%	90%	74% Good	High	Young	No	K	Along Terra Bella frontage planter strip; 17' BOC; 5' to sidew alk.
502	Brisbane Box (*Lophostemon confertus*)	0.9	2.8"	2'	9'	55%	80%	67% Fair	High	Young	No	K	Along Terra Bella frontage planter strip; 17' BOC; 5' to sidew alk.
503	Brisbane Box (*Lophostemon confertus*)	1.0"	3.1"	2'	10'	70%	90%	80% Good	High	Young	No	K	In new "orchard style" planting area betw een new Phase 1 building and corner of Shoreline and Terra Bella. In D.G. area nearest to street intersection.
504	Brisbane Box (*Lophostemon confertus*)	1.0"	3.1"	2'	10'	70%	90%	80% Good	High	Young	No	K	In new "orchard style" planting area betw een new Phase 1 building and corner of Shoreline and Terra Bella -- south of front door.
505	Brisbane Box (*Lophostemon confertus*)	1.1"	3.5"	2'	10'	70%	90%	80% Good	High	Young	No	K	In new "orchard style" planting area betw een new Phase 1 building and corner of Shoreline and Terra Bella -- south of front door.
506	Brisbane Box (*Lophostemon confertus*)	0.9"	2.8"	2'	11'	70%	90%	80% Good	High	Young	No	K	In new "orchard style" planting area betw een new Phase 1 building and corner of Shoreline and Terra Bella -- south of front door.
507	Brisbane Box (*Lophostemon confertus*)	1.0"	3.1"	2'	11'	70%	90%	80% Good	High	Young	No	K	In new "orchard style" planting area betw een new Phase 1 building and corner of Shoreline and Terra Bella -- north of front door.
508	Brisbane Box (*Lophostemon confertus*)	1.2"	3.8"	2'	11'	70%	90%	80% Good	High	Young	No	K	In new "orchard style" planting area betw een new Phase 1 building and corner of Shoreline and Terra Bella -- north of front door. Nursery stake lashed to trunk still creating rubbing w ound.
509	Brisbane Box (*Lophostemon confertus*)	1.3"	4.1"	2'	11'	70%	90%	80% Good	High	Young	No	K	In new "orchard style" planting area betw een new Phase 1 building and corner of Shoreline and Terra Bella -- north of front door. Nursery stake lashed to trunk still creating rubbing w ound.
510	Brisbane Box (*Lophostemon confertus*)	1.1"	3.5"	2'	10'	70%	90%	80% Good	High	Young	No	K	In new "orchard style" planting area betw een new Phase 1 building and corner of Shoreline and Terra Bella -- north of front door. Nursery stake lashed to trunk still creating rubbing w ound.
511	Brisbane Box (*Lophostemon confertus*)	1.1"	3.5"	2'	11'	70%	90%	80% Good	High	Young	No	K	In new "orchard style" planting area betw een new Phase 1 building and corner of Shoreline and Terra Bella -- north of front door. Nursery stake lashed to trunk still creating rubbing w ound.

512	Brisbane Box (*Lophostemon confertus*)	1.0"	3.1"	2'	11'	70%	90%	80% Good	High	Young	No	K	In new "orchard style" planting area betw een new Phase 1 building and corner of Shoreline and Terra Bella -- north of front door. In D.G. area. Nursery stake lashed to trunk still creating rubbing w ound.
513	London Planetree (*Platanus acerifolia)*	1.5"	4.7"	3'	12'	66%	90%	77% Good	High	Young	No	K	In 4' w ide planter strip betw een sidew alk and curb along Shoreline at Terra Bella.
514	London Planetree (*Platanus acerifolia)*	1.5"	4.7"	3'	10'	66%	90%	77% Good	High	Young	No	K	In 4' w ide planter strip betw een sidew alk and curb along Shoreline.
515	London Planetree (*Platanus acerifolia)*	1.7"	5.3"	3'	9'	66%	90%	77% Good	High	Young	No	K	In 4' w ide planter strip betw een sidew alk and curb along Shoreline.
516	London Planetree (*Platanus acerifolia)*	1.6"	5.0"	3'	9'	66%	90%	77% Good	High	Young	No	K	In 4' w ide planter strip betw een sidew alk and curb along Shoreline.
517	London Planetree (*Platanus acerifolia)*	2.2"	6.9"	3'	13'	66%	90%	77% Good	High	Young	No	K	In 4' w ide planter strip betw een sidew alk and curb along Shoreline.
518	London Planetree (*Platanus acerifolia)*	2.3"	7.2"	3'	15'	66%	90%	77% Good	High	Young	No	K	In 4' w ide planter strip betw een sidew alk and curb along Shoreline.
519	London Planetree (*Platanus acerifolia)*	2.2"	6.9"	3'	15'	66%	90%	77% Good	High	Young	No	K	In 4' w ide planter strip betw een sidew alk and curb along Shoreline.
520	London Planetree (*Platanus acerifolia)*	2.2"	6.9"	3'	17'	66%	90%	77% Good	High	Young	No	K	In 4' w ide planter strip betw een sidew alk and curb along Shoreline, opposite "highw ay green" freew ay sign (~9"x36") on pair of 5x5 posts.
521	London Planetree (*Platanus acerifolia)*	2.1"	6.6"	3'	15'	66%	90%	77% Good	High	Young	No	K	In 4' w ide planter strip betw een sidew alk and curb along Shoreline.
522	London Planetree (*Platanus acerifolia)*	2.1"	6.6"	3'	16'	66%	90%	77% Good	High	Young	No	K	In 4' w ide planter strip betw een sidew alk and curb along Shoreline -- opposite corner of building and tw o sw eetgum trees (#114, #115).
523	London Planetree (*Platanus acerifolia)*	2.1"	6.6"	3'	17'	66%	90%	77% Good	High	Young	No	K	In 4' w ide planter strip betw een sidew alk and curb along Shoreline, 23' north of electroleer (street light over Shoreline) also in this planter strip.
524	London Planetree (*Platanus acerifolia)*	2.3"	7.2"	3'	16'	66%	90%	77% Good	High	Young	No	K	In 4' w ide planter strip betw een sidew alk and curb along Shoreline.
525	London Planetree (*Platanus acerifolia)*	2.2"	6.9"	3'	16'	66%	90%	77% Good	High	Young	No	K	In 4' w ide planter strip betw een sidew alk and curb along Shoreline.
526	Straw berry Tree (*Arbutus 'Marina')*	1.5"	4.7"	2'	10'	70%	60%	65% Fair	High	Young	No	Re?	Outside of current site chain link site fencing along Shoreline, but south of the four sw eetgum trees (#118-#121). Mutilated by horribly severe pruning (lollipopped!!); 58' BOC (Shoreline); 6' BOC (on-site drive aisle).
527	London Planetree (*Platanus acerifolia)*	2.6"	8.2"	3'	18'	75%	90%	82% Good	High	Young	No	K	In Shoreline frontage planting area south of the four sw eetgum trees (#118-#121); 22' BOC (Shoreline).
528	London Planetree (*Platanus acerifolia)*	2.8"	8.8"	3'	20'	75%	90%	82% Good	High	Young	No	K	In Shoreline frontage planting area south of the four sw eetgum trees (#118-#121); 22' BOC (Shoreline); opposite planetree #524; 30' north of sidew alk to building (w alkw ay into site)..
529	London Planetree (*Platanus acerifolia)*	1.5"	4.7"	2'	9'	70%	90%	80% Good	High	Young	No	K	In Shoreline frontage planting area south of the four sw eetgum trees (#118-#121); 24' BOC (Shoreline); 12' north of sidew alk to building (w alkw ay into site)..

530	London Planetree (*Platanus acerifolia)*	1.4"	4.4"	2'	13'	70%	90%	80% Good	High	Young	No	K	In Shoreline frontage planting area south of the four sweetgum trees (#118-#121); 22' BOC (Shoreline); across mallow hedge.
531	London Planetree (*Platanus acerifolia)*	1.4"	4.4"	3'	13'	70%	90%	80% Good	High	Young	No	K	In Shoreline frontage planting area.
532	London Planetree (*Platanus acerifolia)*	1.5"	4.7"	3'	13'	70%	90%	80% Good	High	Young	No	K	In Shoreline frontage planting area.
533	London Planetree (*Platanus acerifolia)*	1.5"	4.7"	2'	12'	70%	90%	80% Good	High	Young	No	K	In Shoreline frontage planting area.
534	London Planetree (*Platanus acerifolia)*	1.3"	4.1"	2'	12'	70%	90%	80% Good	High	Young	No	K	In Shoreline frontage planting area; opposite planetree #8 (mallow hedge between).
535	London Planetree (*Platanus acerifolia)*	1.4"	4.4"	2'	12'	70%	90%	80% Good	High	Young	No	K	In Shoreline frontage planting area. Still has nursery plant tag -- apparently the variety/cultivar name for these is "Columbia" … good choice, I say.
536	London Planetree (*Platanus acerifolia)*	1.4"	4.4"	2'	10'	70%	90%	80% Good	High	Young	No	K	In Shoreline frontage planting area.
537	London Planetree (*Platanus acerifolia)*	1.5"	4.7"	2'	9'	70%	90%	80% Good	High	Young	No	K	In Shoreline frontage planting area.
538	London Planetree (*Platanus acerifolia)*	1.3"	4.1"	2'	11'	70%	90%	80% Good	High	Young	No	K	In Shoreline frontage planting area; at edge of mallow hedge.
539	London Planetree (*Platanus acerifolia)*	1.8"	5.7"	2'	12'	70%	90%	80% Good	High	Young	No	K	In Shoreline frontage planting area; just across mallow hedge.
540	London Planetree (*Platanus acerifolia)*	1.5"	4.7"	2'	12'	70%	90%	80% Good	High	Young	No	K	In Shoreline frontage planting area.
541	Brisbane Box (Lophostemon confertus)	1.8"	5.7"	3'	12'	70%	70%	70% Good	High	Young	No	X	East side of Phase I building; in planter strip between drive aisle and parking lot curbs.
542	Oak, Southern Live (Quercus virginiana)	3.5"	11.0"	7'	12'	60%	60%	60% Fair	High	Young	No	X	East side of Phase I building; in planter strip between drive aisle and parking lot curbs.
543	Oak, Southern Live (Quercus virginiana)	3.5"	11.0"	7'	11'	66%	66%	66% Fair	High	Young	No	X	East side of Phase I building; in planter strip between drive aisle and parking lot curbs.
544	Oak, Southern Live (Quercus virginiana)	3.6"	11.3"	8'	14'	55%	55%	55% Fair	High	Young	No	X	East side of Phase I building; in planter strip between drive aisle and parking lot curbs.
545	Oak, Southern Live (Quercus virginiana)	3.7"	11.6"	8'	15'	65%	65%	65% Fair	High	Young	No	X	East side of Phase I building; in planter strip between drive aisle and parking lot curbs.
546	Oak, Southern Live (Quercus virginiana)	3.6"	11.3"	7'	12'	60%	60%	60% Fair	High	Young	No	X	East side of Phase I building; in planter strip between drive aisle and parking lot curbs.
547	Oak, Southern Live (Quercus virginiana)	3.7"	11.6"	8'	15'	65%	65%	65% Fair	High	Young	No	X	East side of Phase I building; in planter strip between drive aisle and parking lot curbs.
341	341	341	341	341		Excellent =		0		HT size =	32	98	= K, Keep
						Good =		120		Non-HT =	309	67	= X, Remove, per Disposition Plan (Sheet L3.1 05/31/2017)
						Fair =		160			341	176	= Re, possible Recycle, per RMArborist suggestion
						Poor =		31				341	
						Very Poor =		30					
						Dead =		0					
								341					

3.3 Legend - Tree Inventory Headers

Observations were made and data gathered during my on-site inspections (2012 - July 2018). Further conclusions and protection measures were refined from office research, seminar information, and past experience based on those observations and data.	
Unless otherwise defined as a limited inventory, all site trees larger than a minimum diameter (usually ≥4-inch) were numbered and inspected.	
The gathered data was entered into a Microsoft® Excel database. The data is encapsulated into the accompanying "Tree Inventory Data" section. The categories are typically self-descriptive with only the following notes.	
Tree Number:	Since 2012, I sequentially assigned tree numbers from 1 to 547, but now there are gaps as trees have been removed … and for control monitoring. A 1" by 3" aluminum tag can be stapled to each tree at about eye level …
	… with a leading two-digit prefix designating the year when the data was last taken … e.g., "16" for 2016, "17" for 2017, to identify each as linked with my inventories, thus differentiating it from any other numbering system.
Names:	We employ the initial common names from McMinn, if listed, otherwise from Sunset. Scientific/botanical names are included to minimize confusion. As applicable, we used McMinn's key and/or Sunset's descriptions.
DSH:	Diameter at Standard Height: Trunk diameter measured at the standard height defined by the jurisdiction in which the trunk grows. The industry standard is 54 inches above ground level, taken with a standard surveyor's diameter tape, recorded in inches.
	Multi-trunked tree's diameters are measured below the lowest branch swelling and/or individual stems at 54 inches, or an average, depending on which level's measurement is deemed to produce the best representative figure.
Trunk Circum-ference:	City of Mountain View Planning Department has preferred that I convert the standard diameter measurements to circumference. This column shows my arithmetic results of multiplying the diameters by pi (3.141592).
Av. Crown Radius:	The averaged radii's measurement is shown in feet.
Ht (Height):	Estimated distance foliage crown extends above grade, recorded in feet.

Vigor:	Rating for tree's growth and vitality as a blend of elements like leaf or bud size and color, twig growth (elongation), accumulation of deadwood, cavities, woundwood development, trunk expansion (growth "cracks"), etc.
Form:	Structure rating for tree's architecture as a composite of factors like branch attachment, lean and balance, effects of prior breakage, crossing-tangled-twisted limbs, codominant trunks and/or branches, decay and cavities, anchorage (roots), etc.
Overall Condition:	Percentage rating assessing the tree's overall vigor, recent growth, insects/diseases, and structural defects. Relative text rating included in the same cell as: Excellent, Good, Fair, Poor, Very Poor.
	This corresponds to the "Condition Percentage" factor in tree valuations per the Council of Tree and Landscape Appraisers (CTLA) system used by the International Society of Arboriculture. (CTLA, 1992.)
	It combines foliage, branches, limbs, trunk, and root ratings into a composite condition score. This rating is used in the calculation of these trees' appraised value required by some cities, like Palo Alto.
Overall Aptitude:	Considers the species' tolerance to construction impacts and the tree's condition (vigor & structure), longevity/age, adaptability, and aesthetics.
	This rating takes into account any announced intentions of changes in area/lot use. Degrees: High, Moderate, Low, Very Low.
	• High: Tree in great condition and any existing defects or stresses are minor or can be easily mitigated.
	• Moderate: Notable vigor and/or stability problems but which can be moderated with treatment &/or increased tree protection zone.
	• Low: Significant problems, including shorter life expectancy. Difficult to retain but potential with much larger tree protection zone.
	• Very Low: Substantial existing problems, defects, stresses. Unlikely to survive impact of any project.
Age / Longevity:	Rates tree's relative age: Young (Long) / Semi-Mature / Mature / Over-Mature (Short).
Heritage Tree:	In this cell, "HT" is a "Heritage Tree", "N's" is a "Neighbor's overhanging tree", "ST" is a municipal street tree.
	Municipal code defines "Heritage Tree" … any tree 48-inch circumference (15.3-inch diameter) at 54-inches above grade or an oak, redwood, or cedar 12-inch circumference (3.8-inch diameter)].
K / X / Relo?	K=Plan to Keep; X=Plan to Remove; Relo?= Possible Relocation/Transplant candidate.
Comments:	Notes; most obvious defects, insects, diseases or unique characteristics.
	… a heritage-size tree is any tree 48-inch circumference (15.3-inch diameter) at 54-inches above grade or an oak, redwood, or cedar 12-inch circumference (3.8-inch diameter)].

4.0 Tree Preservation Guidelines: Pre-Construction Maintenance notes

4.1 Supplemental watering should be provided. A rule of thumb for construction site stressed trees is 10-20 gallons per trunk diameter inch per month, particularly critical during hot weather. This is modified by the Project Arborist on site with root zone inspections and monitoring as water demands will obviously be lower during cool, damp weather. Inspection should find soil between 3" and 18" below grade moist enough for roots to thrive.

4.2 Many of these small trees were given a good start at the nursery-level, but now would benefit from early structural pruning to select good form if they are to be retained or relocated.

Otherwise, no pruning is absolutely needed at this time, unless project design cannot avoid clearance issues. Nevertheless, deadwood removal and endweight reduction is commonly performed to improve existing site trees. And, usually project trees benefit from "Crown Cleaning" for deadwood removal and "Crown Thinning" to lighten branch endweights) at sometime before the close of the project. Then the owner has a benchmark against which to compare future status of the trees. All work must conform to published ANSI A-300 Standards

4.3 Approaching project commencement, when the foundations, driveways, and other hardscape features (including trenches) have been staked/located, then some pruning may likely be needed. Raising/clearance can be minimized for space to work. Root pruning along the lines within 15-feet on either side of mature trees' trunks can sever roots cleanly, reducing shock to these trees' systems..

4.4 All project tree work performed before, during, or after construction is to be done by WCISA Certified Tree Workers under the supervision of an ISA Certified Arborist (or equivalents, if they possess sufficient skill for approval by Project Arborist). This includes all pruning, removals (including stump removals) within driplines of trees to be preserved, root pruning, and repair or remedial measures.

5.0 Tree Preservation Guidelines: Tree Protection Measures

5.1 Fencing and other root zone protection

Must be in place before demolition or any other project site work.

Though generally expected to extend to the dripline, here the TPF can be installed as close to that as possible.

One 24- to 36-inch opening or gate should be left for inspection access to each area.

Fence material is to be 6-foot-high chain link fence supported by 8-foot long, 2-inch diameter galvanized fence posts driven 2-feet into the soil.

Where no plant material root zone buffer is growing (e.g. ivy, shrubs, turf), a wood chip mulch is to be spread evenly to a 4-inch depth from the dripline to 6-inches from the base of the trunk. Taper to existing ground level at the base of the trunk with a slope of about 2:1.

Additional root zone areas requiring protection can be buffered as Project Arborist requires, e.g., if project scope changes. Commonly acceptable buffer materials often include wood chips, crushed rock, plywood, steel trench plates, and/or a combination of such materials. Consult Project Arborist for depth specifications (which vary depending on use of area and/or specific traffic).

Root zone areas to be protected may be modified by the Municipal Arborist or Project Arborist as plans develop.

5.2 Prohibited Acts & Admonishments/Requirements

5.2.1 No parking or vehicle traffic over any root zones, unless using buffers approved by Project Arborist.

5.2.2 Monitor root zone moisture and maintain as per above.

5.2.3 Have a certified arborist repair any damage promptly.

5.2.4 No pouring or storage of fuel, oil, chemicals, or hazardous materials under these foliage canopies.

5.2.5 No grade changes (cuts, fills, etc.) under these foliage crowns without prior Project Arborist approval. For instance, hand excavation and thinner base prep may be required in the redwood root zone areas.

5.2.6 Any additional pruning required must be performed under arborist supervision – including root pruning – clean, smooth cuts with no breaking, scraping, shattering, or tearing of wood tissue and/or bark.

5.2.7 No storage of construction materials under any foliage canopy without prior Project Arborist approval.

5.2.8 No trenching within the critical root zone area. Consult Project Arborist before any trenching or root cutting beneath any tree's foliage canopy. It is best to route all trenching out from under trees' driplines. Often trenches in root zones must be hand excavated to leave roots intact.

5.2.9 No clean out of trucks, tools, or other equipment over the critical root zone. Keep this debris outside of any existing or future root zone.

5.2.10 No attachment of signs or other construction apparatus to these trees.

5.3 Construction-time Maintenance

5.3.1 Monitor root zone moisture and maintain as per above (§4.1).

5.3.2 Maintain/repair tree protection fences and/or root zone mulch/buffer material.

5.3.3 Have a certified arborist promptly repair any damage to trees.

5.3.4 Routine survival monitoring for the first five years is required by the City and typically includes at least quarterly project arborist inspections with summary report and recommendations faxed to Planning and to Owner.

Remedial measures/actions are also required to be stated in this tree preservation plan: for trees that consistently fail customary performance standards, the mitigation measures will be hand-crafted at that time to meet the specific degree of failure – may include efforts as minor as adjusting irrigation … and/or pruning … or increased frequency of inspections … or (ultimately, if necessary) replacement with additional tree(s) planted of acceptable size and species.

6.0 Certification

I certify that all the statements of fact in this report are true, complete, and correct to the best of my knowledge, ability, and belief, and are made in good faith.

Thank you for the opportunity to apply my knowledge and expertise working with your trees. Good luck with the construction project and tree care decisions ahead of you. If I can answer any further questions for you, the City staff, tree care contractors, or anyone with concerns about your trees, please call or e-mail to inform me.

Respectfully submitted,



Raymond J. Morneau
ISA Certified Arborist #WE-0132A
ISA Tree Risk Assessment Qualified

Appendix E
Special-Status Species Table

SPECIAL-STATUS SPECIES CONSIDERED IN EVALUATION OF RESIDENCES @ SHORELINE GATEWAY PROJECT STUDY AREA

Common Name *Scientific Name*	Listing Status USFWS/ CDFW/Other	General Habitat	Potential for Species Occurrence Within Project Site
SPECIES LISTED OR PROPOSED FOR LISTING			
Plants			
San Mateo thorn-mint *Acanthomintha duttonii*	FE/CE/1B.1	Chaparral and valley grassland. Affinity for serpentine soil. 30 – 260m. Blooms April – June	**Absent.** Suitable habitat not found onsite.
Tiburon paintbrush *Castilleja affinis* ssp. *neglecta*	FE/CT/1B.2	Open serpentine grassland slopes. 60 -400m. Blooms April – June	**Absent.** Suitable habitat not found onsite.
Coyote ceanothus *Ceanothus ferrisae*	FE/--/1B.1	Chaparral and valley grassland. Affinity to serpentine soil. 140 – 530m. Blooms January – March	**Absent.** Suitable habitat not found onsite. Serpentine soils are not present.
Robust spineflower *Chorizanthe robusta* var. *robusta*	FE/--/1B.1	Cismontane woodland, coastal dunes, coastal scrub, sandy terraces and bluffs or in loose sand. 3-120 m. Blooms April – September	**Absent.** Suitable habitat not found onsite.
Crystal Springs fountain thistle *Cirsium fontinale* var. *fontinale*	FE/CE/1B.1	Chaparral, valley grassland, wetland riparian communities and in seeps. Occurs almost always under natural conditions in wetlands. Affinity to serpentine soil. Blooms March – October	**Absent.** Suitable habitat not found onsite. Serpentine soils are not present.
Santa Clara Valley dudleya *Dudleya setchellii*	FE/--/1B.1	Valley grassland and foothill woodlands. Affinity to serpentine soil. 50 – 890m. Blooms April – October	**Absent.** Suitable habitat not found onsite. Serpentine soils are not present.
San Mateo woolly sunflower *Eriophyllum latilobum*	FE/CE/1B.1	Foothill woodland. Affinity to serpentine soil. 20 – 630m. Blooms March – June	**Absent.** Suitable habitat not found onsite. Serpentine soils are not present.
Marin western flax *Hesperolinon congestum*	FT/CT/1B.1	Chaparral and grassland, usually on serpentine barrens. 4 – 420m. Blooms April – July	**Absent.** Suitable habitat not found onsite. Serpentine soils are not present.
Santa Cruz tarplant *Holocarpha macradenia*	FT/CE/1B.1	Coastal prairie, valley and foothill grassland. Found on light, sandy soil or sandy clay; often with non-natives. 10-260 m. Blooms June - October	**Absent.** Suitable habitat not found onsite.
Contra Costa goldfields *Lasthenia conjugens*	FE/--/1B.1	Valley and foothill grassland, vernal pools, cismontane woodland, swales, low depressions, in open grassy areas. 1-445 m. Blooms March – July	**Absent.** Suitable habitat not found onsite.
Dudley's lousewort *Pedicularis dudleyi*	--/Rare/1B.2	Chaparral, valley grassland, and redwood forest in coastal areas. 8 – 360m. Blooms April – June	**Absent.** Suitable habitat not found onsite.
Metcalf Canyon jewelflower *Streptanthus albidus* ssp. *albidus*	FE/--/1B.1	Valley grassland. Affinity to serpentine soil. Blooms April – July	**Absent.** Suitable habitat not found onsite. Serpentine soils are not present.
California seablite *Suaeda californica*	FE/--/1B.1	Margins of coastal salt marshes and swamps. 0-5 m. Blooms July – October	**Absent.** Suitable habitat not found onsite.
Two-fork clover *Trifolium amoenum*	FE/--/1B.1	Valley grassland and wetland-riparian areas. Usually occurs in wetlands, but occasionally not wetlands. 8 – 160m. Blooms April – June	**Absent.** Suitable habitat not found onsite.
Invertebrates			
Vernal pool fairy shrimp *Branchinecta lynchi*	FT/--	Ephemeral freshwater vernal pools.	**Absent.** Suitable habitat not found onsite.

SPECIAL-STATUS SPECIES CONSIDERED IN EVALUATION OF RESIDENCES @ SHORELINE GATEWAY PROJECT STUDY AREA

Common Name *Scientific Name*	Listing Status USFWS/ CDFW/Other	General Habitat	Potential for Species Occurrence Within Project Site
SPECIES LISTED OR PROPOSED FOR LISTING (cont.)			
Invertebrates (cont.)			
San Bruno elfin butteryfly *Callophrys mossii bayensis*	FE/--	Coastal scrub and bunchgrass grassland habitats, with larval foodplant, broadleaf stonecrop (*Sedum spathulifolium*). Adults nectar on bladder parsnip (*Lomatium utriculatum*), common yarrow (*Achillea millefolium*), coast rock cress (*Arabis blepharophylla*), San Francisco wallflower (*Erysimum franciscanum*), California buttercup (*Ranunculus californicus*), and wood strawberry (*Fragaria vesca*).	**Absent.** Suitable habitat for this species is not found in the project study area.
Monarch butterfly *Danaus plexippus pop. 1*	--/*	Eucalyptus groves (wintering sites).	**Low.** Individuals may be present on a transient basis. Protected wintering sites do not occur on the project site.
Bay checkerspot butterfly *Euphydryas editha bayensis*	FT/--	Restricted to native grasslands on outcrops of serpentine soil in the vicinity of San Francisco Bay. *Plantago erecta* is the primary host plant; *Castilleja exserta,* and *C. densiflora* are the secondary host plants.	**Absent.** Suitable habitat and host plants not found onsite.
Vernal pool tadpole shrimp *Lepidurus packardi*	FE/--	This species inhabits vernal pools and swales in the City of Fremont and Sacramento Valley containing clear to highly turbid water.	**Absent.** Suitable habitat not found onsite.
Amphibians and Reptiles			
California tiger salamander *Ambystoma californiense*	FT/CT	Needs underground refuges, especially ground squirrel burrows and vernal pools or other seasonal water sources for breeding	**Absent.** Suitable foraging, dispersal, and refugia habitat not is present within the project site.
Foothill yellow-legged frog *Rana boylii*	--/CT, CSC	Partly-shaded, shallow streams and riffles with a rocky substrate in a variety of habitats. Needs at least some cobble-sized substrate for egg-laying. Needs at least 15 weeks to attain metamorphosis.	**Absent.** Suitable habitat is not found within the project site.
California red-legged frog *Rana draytonii*	FT/CSC	Lowlands and foothills in or near permanent sources of deep water with dense, shrubby or emergent riparian vegetation. Requires 11-20 weeks of permanent water for larval development. Must have access to aestivation habitat.	**Absent.** Suitable foraging, dispersal, and refugia habitat is not present within the project site.
San Francisco garter snake *Thamnophis- sirtalis tetrataenia*	FE/CE, CFP	Densely vegetated ponds near open hillsides with abundant small mammal burrows.	**Absent.** Suitable habitat not found onsite.
Birds			
Tricolored blackbird *Agelaius tricolor*	--/CE, CSC	Nests in cattail, tule, blackberry thickets, or thistle patches adjacent to freshwater sources.	**Absent.** Suitable habitat not found onsite.
Golden eagle *Aquila chrysaetos*	BCC/FP	Rolling foothills, mountain areas, sage-juniper flats, and desert. Cliff-walled canyons and large trees in open areas provide nesting habitat.	**Absent.** Suitable habitat not found onsite.
Marbled murrelet *Brachyramphus marmoratus*	FT/CE	Coniferous forests near the coast during breeding season. Builds nests in large horizontal branches high in the tree.	**Absent.** Suitable habitat not found onsite.

SPECIAL-STATUS SPECIES CONSIDERED IN EVALUATION OF RESIDENCES @ SHORELINE GATEWAY PROJECT STUDY AREA

Common Name *Scientific Name*	Listing Status USFWS/ CDFW/Other	General Habitat	Potential for Species Occurrence Within Project Site
SPECIES LISTED OR PROPOSED FOR LISTING (cont.)			
Birds (cont.)			
Swainson's hawk *Buteo swainsoni*	--/CE	Breeds in open areas with scattered trees at low to middle elevations in valleys, dry meadows, and foothills. Requires grasslands for foraging.	**Absent.** Suitable habitat not found onsite.
Western snowy plover *Charadrius alexandrinus nivosus*	FT/CSC	Sandy beaches, salt pond levees and shores of large alkali lakes. Needs sandy, gravelly or friable soils for nesting.	**Absent.** Suitable habitat not found onsite.
Western yellow-billed cuckoo *Coccyzus americanus occidentalis*	FT/CE	Woodlands with low, scrubby, vegetation, overgrown orchards, abandoned farmland, and dense thickets along streams and marshes.	**Low (no potential to nest).** Uncommon to the region but may occur on a transient basis during migration.
American peregrine falcon *Falco peregrinus anatum*	DL/DL&FP	Woodlands, coastal habitats, riparian areas, coastal and inland waters, human made structures that may be used as nest or temporary perch sites.	**Low.** May forage within the project area. Suitable nesting habitat is not present within the project area.
California black rail *Laterallus jamaicensis coturniculus*	BCC/CT, FP	Inhabits freshwater marshes, wet meadows and shallow margins of saltwater marshes bordering larger bays. Needs water depths of about 1 inch that does not fluctuate during the year and dense vegetation for nesting habitat.	**Absent.** Suitable habitat not found onsite.
California brown pelican *Pelicanus occidentalis californicus*	DL/DL, FP	Nests on protected islets near freshwater lakes and marine waters.	**Absent.** Suitable habitat not found onsite.
California Ridgway's (clapper) rail *Rallus obsoletus*	FE/CE, FP	Salt-water and brackish marshes traversed by tidal sloughs in the vicinity of San Francisco Bay. Associated with abundant growths of pickleweed, but feeds away from cover on invertebrates from mud-bottomed sloughs.	**Absent.** Suitable habitat not found onsite.
California least tern *Sternula antillarum browni*	FE/CE, FP	Nests along the coast from San Francisco Bay south to northern Baja California. Colonial breeder on bare or sparsely vegetated, flat substrates: sand beaches, alkali flats, landfills, or paved areas.	**Absent.** Suitable habitat not found onsite.
Least Bell's vireo *Vireo bellii pusillus*	FE/CE	Coastal scrub, riparian areas, and woodland habitats. Gleans insects from foliage. Recent breeding range in California is documented from Gilroy to San Diego County.[1]	**Absent.** Suitable habitat not found onsite. Outside of documented breeding range.
Mammals			
Salt-marsh harvest mouse *Reithrodontomys raviventris*	FE/CE, FP	Only in the saline emergent wetlands of San Francisco Bay and its tributaries. Found primarily in pickleweed (*Salicornia* spp.). Does not burrow, builds loosely organized nests. Requires higher areas for flood escape.	**Absent.** Suitable habitat not found onsite.

[1] Kus, B. 2002. Least Bell's Vireo (*Vireo bellii pusillus*). *In* The Riparian Bird Conservation Plan: a strategy for reversing the decline of riparian-associated birds in California. California Partners in Flight. Available online at: http://www.prbo.org/calpif/pdfs/riparian_v-2.pdf Accessed on May 3, 2019.

SPECIAL-STATUS SPECIES CONSIDERED IN EVALUATION OF RESIDENCES @ SHORELINE GATEWAY PROJECT STUDY AREA

Common Name *Scientific Name*	Listing Status USFWS/ CDFW/Other	General Habitat	Potential for Species Occurrence Within Project Site
OTHER SPECIAL-STATUS SPECIES			
Plants			
Franciscan onion *Allium peninsulare var. franciscanum*	--/--/1B.2	Clay, volcanic, or serpentine substrate in valley and foothill grassland and cismontane woodland. 20 – 740m. Blooms May – June	**Absent.** Suitable habitat not found onsite. No serpentine soils present.
Bent-flowered fiddleneck *Amsinckia lunaris*	--/--/1B.2	Coastal bluff scrub, cismontane woodland, and valley and foothill grassland. 30 – 680m.	**Absent.** Suitable habitat is not found in the project study area.
King's Mountain manzanita *Arctostaphylos regismontana*	--/--/1B.2	Chaparral, mixed evergreen forest, and north coastal coniferous forest. 200 – 660m. Blooms January – April	**Absent.** Suitable habitat not found onsite.
Alkali milk-vetch *Astragalus tener* var. *tener*	--/--/1B.2	Alkali playa and flats, valley, annual, and foothill grassland, vernal pools, low ground, and flooded lands. 1-170 m. Blooms March – June	**Absent.** Suitable habitat not found onsite.
California androsace *Androsace elongata* ssp. *acuta*	--/--/4.2	Chaparral, cismontane woodland, coastal sage scrub, valley and foothill grassland. 150-1200m. Blooms March – June	**Absent.** Suitable habitat not found onsite.
Brittlescale *Atriplex depressa*	--/--/1B.2	Chenopod scrub, meadows, playas, valley and foothill grassland, vernal pools. Usually in alkali scalds or alkali clay in meadows or annual grassland; rarely associated with riparian, marshes, or vernal pools. 1-320m. Blooms April – October	**Absent.** Suitable habitat not found onsite. No saline or alkaline soils present.
Lesser saltscale *Atriplex minuscula*	--/--/1B.1	Chenopod scrub, playas, valley and foothill grassland. In alkali sink and grassland in sandy, alkaline soils. 15-200m. Blooms May – October	**Absent.** Suitable habitat not found onsite. No saline or alkaline soils are present.
Brewer's calandrina *Calandrinia breweri*	--/--/4.2	Chaparral, northern coastal scrub, coastal sage scrub and in disturbed areas. 50 – 1150m. Blooms March – June	**Absent.** Suitable habitat not found onsite.
Chaparral harebell *Campanula exigua*	--/--/1B.2	Chaparral and rocky sites; usually found on serpentine soils in chaparral. 275-1250m. Blooms May – June	**Absent.** Suitable habitat not found onsite.
Congdon's tarplant *Centromadia parryi* ssp. *congdonii*	--/--/1B.1	Valley and foothill grassland. Alkaline soils, sometimes described as heavy white clay. 1-230m. Blooms May – October	**Absent.** Suitable habitat not found onsite. No alkaline soils are present.
Point Reyes bird's-beak *Chloropyron maritimus* ssp. *palustris*	--/--/1B.2	Coastal salt marsh usually with *Salicornia*, *Distichlis*, *Jaumea*, *Spartina*, etc. 0-15m. Blooms June – October	**Absent.** Suitable habitat not found onsite.
Lost thistle *Cirsium praeteriens*	--/--/1A	Presumed extinct; habitat unknown. Blooms June – July	**Absent.** Species presumed extinct.
Santa Clara red ribbons *Clarkia concinna* ssp. *automixa*	--/--/4.3	Cismontane woodland, chaparral. Found on slopes and near drainages. 90-1500m. Blooms May – June	**Absent.** Suitable habitat not found onsite.
Lewis' clarkia *Clarkia lewisii*	--/--/4.3	Chaparral, foothill woodland, and northern coastal scrub. 5 – 112m. Blooms May – July	**Absent.** Suitable habitat not found onsite.
Round-headed Chinese-houses *Collinsia corymbosa*	--/--/1B.2	Coastal dunes and coastal prairie. Blooms April – June	**Absent.** Suitable habitat not found onsite.

SPECIAL-STATUS SPECIES CONSIDERED IN EVALUATION OF RESIDENCES @ SHORELINE GATEWAY PROJECT STUDY AREA

Common Name *Scientific Name*	Listing Status USFWS/ CDFW/Other	General Habitat	Potential for Species Occurrence Within Project Site
OTHER SPECIAL-STATUS SPECIES (cont.)			
Plants (cont.)			
San Francisco collinsia *Collinsia multicolor*	--/--/1B.2	On humus-covered soil derived from mudstone in closed-cone coniferous forest and coastal scrub. 10 – 430m. Blooms March – May	**Absent.** Suitable habitat not found onsite.
Clustered lady's-slipper *Cypripedium fasciculatum*	--/--/4.2	Yellow pine forest, redwood forest, Douglas-fir forest, and wetland-riparian areas. Occurs in stream banks and seeps. 640 – 1890m. Blooms March – August	**Absent.** Suitable habitat not found onsite.
Weatern leatherwood *Dirca occidentalis*	--/--/1B.2	Chaparral, foothill woodland, mixed evergreen forest, closed-cone pine forest, north coastal coniferous forest, and wetland-riparian areas. Equally likely to occur in wetlands and non-wetlands. 12 – 560m. Blooms January – March	**Absent.** Suitable habitat not found onsite.
Ben Lombond buckwheat *Eriogonum nudum* var. *decurrens*	--/--/1B.1	Chaparral, foothill woodland, and yellow pine forest in coastal areas. Occurs almost always under natural conditions in non-wetlands. 80 – 220m. Blooms June – October	**Absent.** Suitable habitat not found onsite.
Hoover's button-celery *Eriogonum aristulatum* var. *hooveri*	--/--/1B.1	Found in alkaline depressions, vernal pools, roadside ditches and other wet places near the coast. 3-45m. Blooms in July	**Absent.** Suitable habitat not found onsite.
Jepson's coyote-thistle *Eryngium jepsonii*	--/--/1B.2	Valley and foothill grasslands, vernal pools, and wetlands. 6 – 110m.	**Absent.** No suitable habitat is present in the project study area.
San Joaquin spearscale Extriplex joaquinana	--/--/1B.2	Chenopod scrub, meadows and seeps, playas, valley and foothill grassland; seasonal wetlands or alkali sink scrub. 1 – 835m.	**Absent.** Suitable habitat is not found within the project study area.
Minute pocket moss *Fissidens pauperculus*	--/--/1B.2	North coast coniferous forest with damp coastal soils. 10 – 1024m.	**Absent.** Suitable habitat not found onsite.
Fragrant fritillary *Fritillaria liliacea*	--/--/1B.2	Coastal scrub, valley and foothill grassland, coastal prairie. Often on serpentine; usually on clay soils, in grassland. 3 - 410m. Blooms February –April	**Absent.** Suitable habitat not found onsite.
Loma Prieta hoita *Hoita strobilina*	--/--/1B.1	Mixed evergreen forest and chaparral. Affinity for serpentine soil. 90 – 1170m. Blooms May – July	**Absent.** Suitable habitat not found onsite.
Coast iris *Iris longipetala*	--/--/4.2	Coastal prairie, lower montane coniferous forest, meadows and seeps, mesic sites. 5 – 430m. Blooms March – May	**Absent.** Suitable habitat not found onsite.
Legenere *Legenere limosa*	--/--/1B.1	Vernal pools. Found in beds of vernal pools. 1-880m. Blooms April – June	**Absent.** Suitable habitat not found onsite.
Bristly leptosiphon *Leptosiphon acicularis*	--/--/4.2	Chaparral, cismontane woodland, coastal prairie, valley and foothill grassland. Grassy areas, woodland, chaparral. 55-1500m. Blooms April – July	**Absent.** Suitable habitat not found onsite.
Woolly headed lessingia *Lessingia hololeuca*	--/--/3	Valley grassland, yellow pine forest, northern coastal scrub. Occurs almost always under natural conditions in non-wetlands. Affinity for serpentine soil. 10 – 880m. Blooms June – October	**Absent.** Suitable habitat not found onsite.
arcuate bush-mallow *Malacothamnus arcuatus*	--/--/1B.2	Chaparral. Found in gravelly alluvium. 0 – 590m. Blooms April – September	**Absent.** Suitable habitat not found onsite.

SPECIAL-STATUS SPECIES CONSIDERED IN EVALUATION OF RESIDENCES @ SHORELINE GATEWAY PROJECT STUDY AREA

Common Name *Scientific Name*	Listing Status USFWS/ CDFW/Other	General Habitat	Potential for Species Occurrence Within Project Site
OTHER SPECIAL-STATUS SPECIES (cont.)			
Plants (cont.)			
Davidson's bush-mallow *Malacothamnus davidsonii*	--/--/1B.2	Chaparral, northern coastal scrub, coastal sage scrub, and riparian areas. Usually occurs in non-wetlands but occasionally found in wetlands. 140 – 1850m. Blooms June – January	**Absent.** Suitable habitat not found onsite.
Hall's bush-mallow *Malacothamnus hallii*	--/--/1B.2	Chaparral. Some populations found on serpentine soils. 10-550m. Blooms May – September	**Absent.** Suitable habitat not found onsite.
Mt. Diablo cottonweed *Micropus amphibolus*	--/--/3.2	Valley grassland, foothill woodland, and mixed evergreen forest. Affinity to serpentine soil. 30 – 550m. Blooms March – May	**Absent.** Suitable habitat not found onsite.
San Antonio Hills monardella *Monardella antonina* ssp. *antonina*	--/--/3	Cismontane woodland, chaparral. Rocky slopes and ephemeral drainages. 320-1000m. Blooms June – August	**Absent.** Suitable habitat not found onsite.
Woodland woollythreads *Monolopia gracilens*	--/--/1B.2	Mixed evergreen forest, redwood forest, and chaparral. Affinity to serpentine soil. 60 – 1360m. Blooms March – July	**Absent.** Suitable habitat not found onsite.
Pincushion navarretia *Navarretia myersii* ssp. *myersii*	--/--/1B.1	Found in vernal pools; often in acidic soils. 20 – 330m. Blooms April – May	**Absent.** Suitable habitat not found onsite. No vernal pools present.
Patterson's navarretia *Navarretia paradoxiclara*	--/--/1B.3	Meadows and seeps. 150-430m. Blooms May - July	**Absent.** Suitable habitat not found onsite.
Prostrate vernal pool navarretia *Navarretia prostrata*	--/--/1B.1	Coastal scrub, valley and foothill grassland, vernal pools. Found in alkaline soils in grassland, or in vernal pools. Mesic, alkaline sites. 15-1210m. Blooms April – July	**Absent.** Suitable habitat not found onsite. No alkaline soils present.
White-flowered rein orchid *Piperia candida*	--/--/1B.2	Yellow pine forest, northern coastal coniferous forest. Affinity to serpentine soil. 40 – 730m. Blooms May – September	**Absent.** Suitable habitat not found onsite. No serpentine soils present.
Choris's popcorn-flower *Plagiobothrys chorisianus* var. *chorisianus*	--/--/1B.2	Mesic sites in chaparral, coastal scrub, and coastal prairie. 4 – 300m. Blooms March – June	**Absent.** Suitable habitat not found onsite.
Hairless popcorn-flower *Plagiobothrys glaber*	--/--/1A	Meadows and seeps, marshes and swamps. Coastal salt marshes and alkaline meadows. 15-180m. Blooms March - May	**Absent.** Suitable habitat not found onsite.
Lobb's aquatic buttercup *Ranunculus lobbii*	--/--/4.2	Valley grassland, foothill woodland, redwood forest, freshwater wetlands, wetland-riparian areas and vernal pools. Occurs almost always under natural conditions in wetlands. 12 – 810m. Blooms February – May	**Absent.** Suitable habitat not found onsite.
Chaparral ragwort *Senecio aphanactis*	--/--/2B.2	Foothill woodland, northern coastal scrub, and coastal sage scrub. 15 – 1190m. Blooms January – April	**Absent.** Suitable habitat not found onsite.
Long-styled sand-spurrey *Spergularia macrotheca var. longistyla*	--/--/1B.2	Alkaline meadows, seeps, marshes and swamps. 6 – 170m.	**Absent.** Suitable habitat not found onsite.
Most beautiful jewel-flower *Streptanthus albidus* ssp. *peramoenus*	--/--/1B.2	Chaparral, valley and foothill grassland, cismontane woodland, serpentine outcrops, and on ridges and slopes. 120-730 m. Blooms April – September	**Absent.** Suitable habitat not found onsite.

SPECIAL-STATUS SPECIES CONSIDERED IN EVALUATION OF RESIDENCES @ SHORELINE GATEWAY PROJECT STUDY AREA

Common Name *Scientific Name*	Listing Status USFWS/ CDFW/Other	General Habitat	Potential for Species Occurrence Within Project Site
OTHER SPECIAL-STATUS SPECIES (cont.)			
Plants (cont.)			
Slender-leaved pondweed *Stuckenia filiformis*	--/--/2B.2	Marshes and swamps, in shallow, clear water of lakes and drainage channels. 15-2,310m. Blooms May – July	**Absent.** Suitable habitat not found onsite.
Santa Cruz clover *Trifolium buckwestiorum*	--/--/1B.1	Broadleafed upland forest, cismontane woodland coastal prairie, mixed evergreen forest, 105-610m. Blooms April – October	**Absent.** Suitable habitat not found onsite.
Saline clover *Trifolium hydrophilum*	--/--/1B.2	Marshes and swamps, valley and foothill grassland, vernal pools. Mesic, alkaline sites. 0-300m. Blooms April – June	**Absent.** Suitable habitat not found onsite.
Caper-fruited tropidocarpum *Tropidocarpum capparideum*	--/--/1B.1	Valley and foothill grassland. Alkaline clay. 1-455m. Blooms March – April	**Absent.** Suitable habitat not found onsite.
Methuselah's beard lichen *Usnea longissima*	--/--/4.2	Found on tree branches in old growth hardwood or coniferous forests, broadleaf upland forests, and north coast coniferous forests. 50 – 1460m.	**Absent.** Suitable habitat not found onsite.
Invertebrates			
Mimic tryonia (=California brackishwater snail) *Tryonia imitator*	--/--/*	Inhabits coastal lagoons, estuaries and salt marshes, from Sonoma County south to San Diego County. Found only in permanently submerged areas in a variety of sediment types; able to withstand a wide range of salinities.	**Absent.** Suitable habitat not found onsite.
Unsilvered fritillary *Speyeria adiaste adiaste*	--/--/*	Openings in redwood and coniferous forests, oak woodlands, and chapparal. Preferred caterpillar hosts is the goosefoot yellow violet (*Viola purprea*).[2]	**Absent.** Suitable habitat not found onsite.
Amphibians and Reptiles			
Santa Cruz black salamander Aneides flavipunctatus niger	--/CSC	Damp environments on land; mixed deciduous and coniferous woodlands and coastal grasslands; found under rocks, talus, and damp woody debris.	**Absent.** Suitable habitat not found onsite.
Northern California legless lizard Anniella pulchra	--/CSC	Coastal dunes, sandy coastal grassland, foothill grassland.	**Absent.** Suitable habitat not found onsite.
California giant salamander *Dicamptodon ensatus*	--/CSC	Wet coastal forests in or near cold, permanent and semi-permanent streams and seepages.	**Absent.** Suitable habitat not found onsite.
Western pond turtle *Emys marmorata*	--/CSC	Aquatic turtle of ponds, marshes, rivers, streams and irrigation ditches with aquatic vegetation. Needs basking sites and suitable (sandy banks or grassy open fields) upland habitat for egg-laying.	**Absent.** Suitable habitat not found onsite.
Red-bellied newt *Taricha rivularis*	--/CSC	Stream or river habitat; found in coastal woodlands and redwood forest along the coast. Larvae go into vegetation and under stones during the day.	**Absent.** Suitable habitat not found onsite.

[2] Butterflies and Moths of North America, 2019. Available online at: http://www.butterfliesandmoths.org/ Accessed on May 3, 2019.

SPECIAL-STATUS SPECIES CONSIDERED IN EVALUATION OF RESIDENCES @ SHORELINE GATEWAY PROJECT STUDY AREA

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OTHER SPECIAL-STATUS SPECIES (cont.)			
Birds			
Cooper's hawk *Accipiter cooperi*	--/CDFW WL&3503.5	Woodland, chiefly of open, interrupted or marginal type. Nest sites are mainly in riparian growths of deciduous trees but also relatively common in urban areas.	**Low - Moderate.** Suitable nesting and foraging habitat is present within the project area.
Sharp-shinned hawk *Accipiter striatus*	--/CDFW WL&3503.5	Woodland, hunt on forest edges. Breeds in deep forests and favors conifer trees to build nests in.	**Low.** Suitable habitat is not present within the project site. Tends to avoid human developments.
Great blue heron *Ardea herodias*	--/* (rookery site)	Colonial nester in tall trees, cliff sides, and sequestered spots on marshes. Rookery sites in close proximity to foraging areas: marshes, lake margins, tide-flats, rivers and streams, wet meadows.	**Low.** Suitable habitat is not present within the project site.
Short-eared owl *Asio flammeus*	--/CSC	Open country including grasslands, marshlands, and coastal scrub. Nests on the ground sheltered by tall grass or bushes.	**Low.** Suitable habitat is not present within the project site.
Long-eared owl *Asio otus*	--/CSC	Nests in conifer, oak, riparian, pinyon-juniper, and desert woodlands that are either open or are adjacent to grasslands, meadows, or shrub lands for foraging. Key habitat components are dense cover for nesting and roosting, suitable nest platforms, and open foraging areas.	**Low.** Suitable habitat is not present within the project site.
Burrowing owl *Athene cunicularia*	--/CSC	Open, dry annual or perennial grasslands, deserts and scrublands characterized by low-growing vegetation. Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	**Low.** Suitable habitat is not present within the project site. Documented within 1.5 miles east of the project site at the NASA-Ames Research Center.
Great horned owl *Bubo virginianus*	--/3503.5	Often uses abandoned nests of corvids or squirrels; nests in large oaks, conifers, eucalyptus.	**Low.** May nest in mature trees within the project area though absence of foraging habitat nearby could dissuade use of the project site trees for nesting.
Red-tailed hawk *Buteo jamaicensis*	--/3503.5	Usually nests in large trees, often in woodland or riparian deciduous habitats. Also known to nest in urban parks and neighborhoods. Forages over open grasslands and scrublands.	**Moderate.** Species is ubiquitous throughout the region. May nest in mature trees within the project site.
Red-shouldered hawk *Buteo lineatus*	--/3503.5	Usually nests in large trees, often in woodland or riparian deciduous habitats. Forages over open grasslands and woodlands.	**Moderate.** May nest in mature trees within the project site.
Northern harrier *Circus cyaneus*	--/CSC	Coastal salt and fresh-water marsh. Nests and forages in grasslands. Nests on ground in shrubby vegetation, usually at marsh edge; nest built of a large mound of sticks in wet areas.	**Low.** Suitable habitat is not present within the project site.
Yellow rail *Coturnicops noveboracensis*	--/CSC	Freshwater marshes, brackish marshes, coastal salt marshes with moist soil or low standing water, and grassy meadows; prefers densely vegetated marshes.	**Low.** Suitable habitat is not present within the project site. Documented historical occurrence of this species southwest of the project site, but has not been documented in over 100 years.

SPECIAL-STATUS SPECIES CONSIDERED IN EVALUATION OF RESIDENCES @ SHORELINE GATEWAY PROJECT STUDY AREA

Common Name *Scientific Name*	Listing Status USFWS/ CDFW/Other	General Habitat	Potential for Species Occurrence Within Project Site
OTHER SPECIAL-STATUS SPECIES (cont.)			
Birds (cont.)			
Snowy egret *Egretta thula*	--/* (rookery site)	Colonial nester, with nest sites situated in protected beds of dense tules. Rookery sites situated close to foraging areas: marshes, tidal-flats, streams, wet meadows, and borders of lakes.	**Low.** Suitable habitat is not present within the project site.
White-tailed kite *Elanus leucurus*	--/FP	Rolling foothills and valley margins with scattered oaks and river bottomlands or marshes next to deciduous woodland. Open grasslands, meadows, or marshes for foraging close to isolated, dense-topped trees for nesting and perching.	**Low.** Species may occur over the project site on a transient basis. Suitable nesting and foraging habitat is not present.
American kestrel *Falco sparverius*	--/3503.5	Frequents generally open grasslands, pastures, and fields; primarily a cavity nester in large trees near open areas.	**Low.** Suitable nesting habitat is present within the project site though preferred foraging habitat is not located nearby.
Saltmarsh common yellowthroat *Geothlypis trichas sinuosa*	BCC/CSC	Resident of the San Francisco Bay region, in fresh and salt water marshes. Requires thick, continuous cover down to water surface for foraging; tall grasses, tule patches, willows for nesting.	**Absent.** No suitable habitat found onsite.
Alameda song sparrow *Melospiza melodia pusillula*	BCC/CSC	Resident of salt marshes bordering central eastern San Francisco Bay. Inhabits pickleweed marshes; nests low in *Grindelia* (high enough to escape high tides) and in pickleweed.	**Absent.** No suitable habitat found onsite.
Black-crowned night heron *Nycticorax nycticorax*	--/3503.5	Lowland and foothill areas. Nests in dense emergent wetlands and dense-foliaged trees.	**Low.** May roost in mature trees within the project site though no evidence of active roosts observed.
Double-crested cormorant *Phalacrocorax auritus*	--/WL, 3503.5	Rookery breeder in coastal areas and inland lakes in fresh, saline, and estuarine waters.	**Absent.** Suitable habitat is not present within the project site.
Black skimmer *Rynchops niger*	--/CSC	Open sandy beaches, gravel or shell bars with sparse vegetation, saltmarsh, or beach wrack.	**Absent (no potential to nest).** Suitable habitat is not found within the project study area. Regional occurrences are documented near the eastern shoreline of San Francisco Bay.
Mammals			
Pallid bat *Antrozous pallidus*	--/CSC/ WBWG: H	Deserts, grasslands, shrublands, woodlands and forests. Most common in open, dry habitats with rocky areas for roosting. Roosts must protect bats from high temperatures. Very sensitive to disturbance of roosting sites.	**Low-Moderate.** Habitat generally unsuitable for this species, although may migrate through the project site. Documented occurrence of this species southwest of the project site.
Townsend's big-eared bat *Corynorhinus townsendii*	--/CSC/ WBWG: H	Mesic sites. Roosts in caves and open, hanging from walls and ceilings. Very sensitive to human disturbance.	**Low-Moderate.** Habitat generally unsuitable for this species, although may migrate through the project site. Documented occurrence of this species southwest of the project site.

SPECIAL-STATUS SPECIES CONSIDERED IN EVALUATION OF RESIDENCES @ SHORELINE GATEWAY PROJECT STUDY AREA

Common Name *Scientific Name*	Listing Status USFWS/ CDFW/Other	General Habitat	Potential for Species Occurrence Within Project Site
OTHER SPECIAL-STATUS SPECIES (cont.)			
Mammals (cont.)			
Hoary bat *Lasiurus cinereus*	--/*/WBWG: M	Prefers open habitats or habitat mosaics, with access to trees for cover and open areas or habitat edges for feeding. Roosts in dense foliage of medium to large trees. Feeds primarily on moths.	**Low-Moderate.** Suitable roost habitat is present within the project area. May roost in trees onsite, particularly during migration periods in spring and fall. Documented occurrence of this species southwest of the project site.
Yuma myotis *Myotis yumanensis*	--/*/WBWG: LM	Optimal habitats are open forests and woodlands with water sources to feed over. Roosts in buildings, trees, mines, caves, bridges, and rock crevices. Maternity colonies active May through July.	**Low-Moderate.** Suitable roost habitat is present within the project area. May roost in trees onsite.
San Francisco dusky-footed woodrat *Neotoma fuscipes annectens*	--/CSC	Prefers forest habitats with moderate canopy, year-round greenery, a brushy understory, and suitable nest building materials. Feeds mainly on woody plants, especially live oak, maple, coffeeberry, alder, and elderberry when available.	**Absent.** Dense vegetation is present throughout the project site but no nests observed.
Salt-marsh wandering shrew *Sorex vagrans halicoetes*	--/CSC	Salt marshes of the south arm of San Francisco Bay. Found at medium to high marsh 6-8 ft above sea level where abundant driftwood is scattered among pickleweed.	**Absent.** Suitable habitat not found onsite.
American badger *Taxidea taxus*	--/CSC	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils. Needs sufficient food, friable soils and open, uncultivated ground. Preys on burrowing rodents.	**Absent.** Suitable habitat not found onsite.

STATUS CODES

Federal (U.S. Fish and Wildlife Service [USFWS]):
FE = Listed as Endangered (in danger of extinction) by the federal government.
FT = Listed as Threatened (likely to become Endangered within the foreseeable future) by the federal government.
DL - Delisted

State (California Department of Fish and Wildlife [CDFW]):
CE = Listed as Endangered by the State of California.
CT = Listed as Threatened by the State of California.
CR = Listed as Rare by the State of California (plants only)
DL = Delisted
CSC = California Species of Special Concern.
FP = Fully Protected
WL = Watch List
3503.5 = Protection for species of Falconiformes (hawks) and Strigiformes (owls).
*Special animal—listed on CDFW's Special Animals List.

California Rare Plant Rank (CRPR):
Rank 1A=Plants presumed extinct in California.
Rank 1B=Plants rare, Threatened, or Endangered in California and elsewhere.
Rank 2= Plants rare, Threatened, or Endangered in California but more common elsewhere.
Rank 3= Plants about which we need more information – a review list
Rank 4= Plants of limited distribution – a watch list

An extension reflecting the level of threat to each species is appended to each rarity category as follows:
.1 – Seriously endangered in California.
.2 – Fairly endangered in California.
.3 – Not very endangered in California.

Western Bay Working Group (WBWG):
WBWG: H = High priority; Species that are imperiled or at a high risk of imperilment.
WBWG: M = Medium priority; Species that warrant a closer evaluation due to potential imperilment.
WBWG: LM = Low to medium priority species.

SOURCES:

California Department of Fish and Wildlife (CDFW). 2019. California Natural Diversity Database (CNDDB) for 7.5-minute topographic quadrangles Milpitas, San Jose West, Mountain View, Palo Alto, Mindego Hill, Cupertino, Niles, Redwood Point, Newark. Commercial Version, Accessed May 3, 2019.

USFWS, 2019. Updated list of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project. Consultation Code: 08ESMF00-2018-SLI-0763. May 3, 2019.

CNPS Rare Plant Program, 2019. Inventory of Rare and Endangered Plants (online edition, v8-03 0.39). California Native Plant Society, Website http://www.rareplants.cnps.org [accessed 03 May 2019].

WBWG, 2019. Western Bat Species Regional Priority Matrix. Accessed May, 2019.

Appendix F
Cultural Resources Report and Native American Communication

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April 18, 2019

Clarissa Burke
Planning Division
City of Mountain View
500 Castro Street
Mountain View, CA 94039-7540

Subject: Residences @ Shoreline Gateway Project – Cultural Resources Survey and Inventory

Dear Ms. Burke:

This report documents the methods and results of a cultural resources survey and inventory completed by Environmental Science Associates (ESA) for the Residences @ Shoreline Gateway Project (Project), in the City of Mountain View, Santa Clara County, California (**Maps 1** and **2**). Calvano/CRP Mountain View, LLP and other private entities (collectively *Applicant*) propose the Project, which would demolish the existing surface parking lots along with portions of the landscaping and subsequently develop two residential buildings and a parking structure at two parcels (Assessor's Parcel Numbers [APNs] 153-15-032 and 153-15-033), referred to as 1001 North Shoreline Boulevard, Mountain View, California.

The Project is subject to review under the California Environmental Quality Act (CEQA), with the City of Mountain View (City) acting as lead reviewing agency for CEQA. The work performed for preparation of this report consisted of background and archival research, including a records search of the California Historical Resources Information System (CHRIS), and a cultural resources pedestrian survey of the Project Area. For the purposes of this document, *cultural resources* include: architectural resources, archaeological resources, and human remains. All maps referred to in this document are provided in **Attachment A**, and other figures are provided in **Attachment B**.

ESA Archaeologist Ben Curry, who meets the Secretary of the Interior's Professional Qualifications Standards (SOI PQS) for Archeology, is the primary author of this report. ESA Archaeologist Heidi Koenig, who meets the SOI PQS for Archaeology, conducted the pedestrian survey of the Project Area. ESA Archaeologist Robin Hoffman, who meets the SOI PQS for Archeology and History, acted as Principal Investigator for this study.

The term *indigenous*, rather than *prehistoric*, is used as a synonym for *Native American-related* (except when quoting), while *pre-contact* is used as a chronological adjective to refer to the period prior to Euroamerican arrival in the subject area. *Indigenous* and *pre-contact* are often, but not always, synonymous, since the former refers to a cultural affiliation and the latter chronological.

Project Description

The Project site encompasses 7.81 acres (APNs 153-15-032 and 153-15-033) in the Southeast ¼ of Section 16 and the Southwest ¼ of Section 15 of Township 6 South, Range 2 West (Mount Diablo Base Meridian), in the City of Mountain View, Santa Clara County (**Map 1**), as depicted on the *Mountain View, California* U.S.

Geological Survey 7.5-minute series topographic quadrangle map (**Map 2**) (USGS, 1981). The Project site is relatively flat, with elevations ranging from approximately 30 to 37 feet above mean sea level, at a southeast aspect. Project development activities, however, would only occur within approximately 5.84 acres of the Project site.

The Project would demolish the existing surface parking lots along with portions of the surrounding landscaping to develop two residential buildings and a parking structure, and the existing office building would remain. The residential development would consist of two separate buildings, "Block A" and "Block B". The Block A building would consist of six stories of residential units above a two-story concrete parking podium, and would extend up to eight stories, or 92 feet above existing grade. The Block B building would consist of five stories of residential units above a two-story concrete parking podium, and would extend up to seven stories, or 91 feet above existing grade. Block B would also include a six-level parking garage adjacent to the condominium building. The Project would also include: construction of private entrance driveways, removal of existing vegetation and replacement with new trees and other landscaping elements, and utility improvements and connections.

CEQA Area of Potential Effects

The definition of the CEQA Area of Potential Effects (C-APE) is modeled after the federal Area of Potential Effects, as defined in the Code of Federal Regulations Title 36 § 800.16(d), which is used for compliance with the National Historic Preservation Act. The C-APE is the geographic area or areas within which a project may directly or indirectly cause alterations in the character or use of historical resources (i.e., resources that meet the criteria for listing in the California Register of Historical Resources [California Register]), if any such resources are present. The C-APE is influenced by the scale and nature of an undertaking and may be delineated differently for direct physical effects and for indirect effects (such as changes in the historical setting or introduction of intrusive noise) that may result from the undertaking.

For the Project a single C-APE has been defined to account for impacts to archaeological, architectural, and tribal cultural resources (TCR[s]). The C-APE is comprised of all areas in the Project Area where the Project proposes ground-disturbing activities and encompasses the depths of excavation (i.e., vertical C-APE), including all construction areas and staging areas. The C-APE consists of all areas in which ground-disturbing construction activities related to the construction of Block A, Block B, and the parking garage adjacent to Block B would occur, including: demolition of the existing parking lot and associated landscaping features, grading, tree removal, general site preparation followed by construction of the buildings and associated structure, landscaping, and trenching for domestic water lines, fire water and wastewater lines, and other improvements as needed to tie Project infrastructure into the existing infrastructure. The Project depth of impact will be limited to grading, foundation pad construction, and trenching for utility installation. The Project site, which encompasses all parcels included in the Project, encompasses 7.81 acres, while the C-APE, consisting of the Project footprint and work area encompasses 5.84 acres. The C-APE extends vertically to 3 feet below ground surface for all Project components other than utility trenching, where the C-APE extends to 8 feet below ground surface.

Background Context

Indigenous Archaeology and Ethnohistory

Categorizing the indigenous pre-contact period into cultural stages allows researchers to describe a range of archaeological resources with similar cultural patterns and components during a given time frame, creating a regional chronology. Milliken et al. (2007) provide a temporal framework for the interpretation of the San Francisco Bay Area, by dividing the human history prior to European contact and colonization in California into three periods: *Early Period*, *Middle Period*, and *Late Period.* Economic patterns, stylistic aspects, and regional phases further subdivide cultural periods into shorter phases. This scheme uses economic and technological types, socio-politics, trade networks, population density, and variations of artifact types to differentiate between cultural periods.

The Early Period (Lower Archaic, 10,000-5500 years Before Present [BP]) in the San Francisco Bay Area is characterized by geographic mobility, millingslab and handstone technology for grinding acorns and seeds, and large wide-stemmed and leaf-shaped projectile points. The first cut shell beads, and the mortar and pestle, are first documented in burials during the Early Period (Middle Archaic, 5500-2500 BP), indicating the beginning of a shift to sedentism. During the Middle Period, which includes the Lower Middle Period (Initial Upper Archaic, 2500-1550 BP), and Upper Middle Period (Late Upper Archaic, 1550-950 BP), geographic mobility may have continued, although groups began to establish longer term base camps in localities from which a more diverse range of resources could be exploited. The first rich black middens are recorded from this period. The addition of milling tools, obsidian, and chert concave-base projectile points, as well as the occurrence of sites in a wider range of environments, suggest that the economic base was more diverse. By the Upper Middle Period, mobility was being replaced by the development of numerous small villages. Around 1550 BP, a dramatic cultural disruption occurred as evidenced by the sudden collapse of the *Olivella* saucer bead trade network. During the Initial Late Period (Lower Emergent, 950-450 BP), social complexity developed toward lifeways of large, central villages with resident political leaders and specialized activity sites. Artifacts associated with the period include the bow and arrow, small corner-notched projectile points, and a diversity of beads and ornaments.

Based on a compilation of ethnographic, historic, and archaeological data, Milliken (1995) describes a group known as the Ohlone, who once occupied the general vicinity of the C-APE. Levy (1978) describes the language group spoken by the Ohlone, known as Costanoan, which is a linguistic term used currently to reference a larger language family that consisted of at least eight spoken languages (as different as Spanish is from French). The languages of the Costanoan language family were spoken by numerous distinct sociopolitical groups of Ohlone peoples. Traditional anthropological literature portrayed the Ohlone peoples as having a static culture, but today it is better understood that many variations of culture and ideology existed within and between villages. California's Native Americans never saw themselves as members of larger cultural groups, as described by anthropologists. Instead, they saw themselves as members of specific villages, or small networks of villages, and related to others primarily by marriage or kinship ties, but with their particular village as the primary identifier of their origins. The Project would occur within the former territory of the *Puichon* people, an Ohlone village group who spoke the *Tamyen* dialect of the Costanoan language family (Levy, 1978; Milliken 1995:3, 36, 65; Milliken et al., 2009).

During and after European contact, Ohlone society was severely disrupted by missionization, disease, and displacement. Today, the Ohlone still have a strong presence in the San Francisco Bay Area, and are highly interested in their historic and pre-contact past.

Historical Context

In 1770, the Pedro Fages Party made the earliest documented European expedition into Santa Clara Valley, in which the C-APE is located. Seven years later, in 1777, Spanish missionaries established Mission Santa Clara de Asís (Mission Santa Clara) southwest of Puichon territory. Later in the same year, citizen-settlers established the pueblo of San José de Gaudalupe (San Jose). Over the next 33 years, at least 4,470 Ohlone from the Santa Clara Valley region were baptized at Mission Santa Clara, and settled in communities in and around the central mission quadrangle (Milliken 1995:66-67, 274; Milliken et al., 2009:140-141). The Ohlone population at Mission Santa Clara declined due to disease, poor living conditions, and harsh working conditions, but many Ohlone remained in the Santa Clara Valley after the mission was secularized. Following the independence of Mexico, the mission's property was divided into ranchos and distributed to private citizens, and some Ohlone. The C-APE was immediately east of the Mexican land grant known as Rancho Pastoria de las Borregas, a 9,066-acre land grant deeded to Francisco Estrada in 1842, but the C-APE was not part of a rancho.

Following the U.S. annexation of California, the C-APE became part of a 160-acre farm owned by Conrad Stierlin, a Swiss immigrant who arrived in Mountain View in 1852. By 1940, the majority of this portion of north Mountain View was still largely in agricultural use, primarily fruit trees, with limited rural residential development. The Bayshore Freeway, just to the north of the C-APE, was completed through Mountain View in 1937, and later widened to four lanes in the late 1950s to become Highway 101. Aerial photography and topographic maps from the 1940s and 1950s identify approximately ten, identically-shaped small residences fronting Stierlin Road (now Shoreline Boulevard), and surrounded by fruit trees on both sides of the road. These small buildings may have housed farm workers at one time. Between the late 1950s and the end of the 1980s all but two of the homes and agricultural fields near the C-APE were replaced by commercial and industrial uses as the area experienced rapid development during the post-World War II period.

Methods and Results

Records Search

On January 18, 2019, ESA Archaeologist Robin Hoffman conducted an in-person record search at the Northwest Information Center (NWIC) of the CHRIS, at Sonoma State University, Rohnert Park (File # 18-1361). The NWIC maintains the official CHRIS records of previous cultural resources studies and recorded cultural resources for the C-APE and vicinity. The purpose of the records search was to: (1) determine whether known cultural resources have previously been recorded in or within 0.5 mile of the C-APE; (2) assess the likelihood for unrecorded cultural resources to be present based on historical references and the distribution of nearby resources; and (3) develop a context for the identification and preliminary evaluation of cultural resources. The records search consisted of an examination of the following documents:

- **NWIC base maps:** *Mountain View, California* (USGS 7.5-minute topographic map)
- **Resource Inventories:** *National Register of Historic Places (National Register), California Inventory of Historical Resources (California Register). California Historical Landmarks, California Points of Historical Interest, Historic Properties Directory Listing*

Attachment B provides documentation of the records search, including relevant site records.

Previously Recorded Resources

The NWIC has record of two previously recorded cultural resources (P-43-003149, -003150) in the C-APE, and two cultural resources (P-43-003148, -003151) immediately adjacent to the C-APE. The four resources in and immediately adjacent to the C-APE are historic-era buildings, and were each evaluated as ineligible for the California Register by ESA architectural historian Brad Brewster (Koenig and Brewster, 2014). The NWIC also has record of 13 additional cultural resources within 0.5 mile of the C-APE, all of which are buildings, and none of which are in close proximity to the C-APE. The California Office of Historic Preservation's Historic Properties Directory for Santa Clara County does not list any buildings or structures in the C-APE or immediate vicinity. Similarly, the City of Mountain View's register of historic resources does not include any buildings in or near the C-APE. **Table 1** summarizes the previously recorded resources identified during the records search.

TABLE 1. PREVIOUSLY RECORDED CULTURAL RESOURCES IN OR WITHIN 0.5 MILE OF C-APE

Primary (P-43-)	Trinomial (CA-SCL-)	Type	Age/ Affiliation	Name/ Description	Recorder(s)	Recorded Distance from C-APE	Note
003149	[none]	Architectural	Historic	House at 1062 Linda Vista Avenue. Demolished post 2014	Brewster (2014)	Within	Demolished; Evaluated as Not eligible for California Register
003150	[none]	Architectural	Historic	House at 1062 Linda Vista Avenue. Demolished post 2014	Brewster (2014)	Within	Demolished; Evaluated as Not eligible for California Register
003148	[none]	Architectural	Historic	House at 1015 North Shoreline Boulevard. Demolished post 2014	Brewster (2014)	Adjacent (in Project site)	Demolished; Evaluated as Not eligible for California Register
003151	[none]	Architectural	Historic	Building at 1160 Terra Bella Avenue. Demolished post 2014	Brewster (2014)	Adjacent (in Project site)	Demolished; Evaluated as Not eligible for California Register
001514	[none]	Architectural	Historic	House at 955 San Rafael Avenue	Miller et al. (1999)	~1,200 ft E	
001515	[none]	Architectural	Historic	House at 943 San Rafael Avenue	Miller et al. (1999)	~1,000 ft SE	
001516	[none]	Architectural	Historic	House at 990 Terra Bella Avenue	Miller et al. (1999)	~1,000 ft E	
001517	[none]	Architectural	Historic	House at 1020 Terra Bella Avenue	Miller et al. (1999)	~750 ft E	
001518	[none]	Architectural	Historic	House at 1718 Spring Street	Miller et al. (1999)	~2,200 ft NW	
001519	[none]	Architectural	Historic	House at 1726 Spring Street	Miller et al. (1999)	~2,300 ft NW	
001520	[none]	Architectural	Historic	House at 1742 Spring Street	Miller et al. (1999)	~2,400 ft NW	

Primary (P-43-)	Trinomial (CA-SCL-)	Type	Age/ Affiliation	Name/ Description	Recorder(s)	Recorded Distance from C-APE	Note
001579	[none]	Architectural	Historic	House at 1734 Spring Street	Miller et al. (1999)	~2,400 ft NW	
001580	[none]	Architectural	Historic	House at 1758 Spring Street	Miller et al. (1999)	~2,500 ft NW	
001582	[none]	Architectural	Historic	House at 1770 Spring Street	Miller et al. (1999)	~2,400 ft NW	
001836	[none]	Architectural	Historic	Jones Hall or Mountain View USAR Center	PAR Environmental Services, Inc. (2006)	~2,600 ft NW	
003123	[none]	Architectural	Historic	Gaber Residence	Gallup (1987)	Within 0.5 mile	
003124	[none]	Architectural	Historic	House at 950 San Leandro	Gallup (1987)	~1,700 ft SE	

Previous Cultural Resources Studies

The NWIC has record of 27 previous cultural resources studies conducted within 0.5 mile of the C-APE, five of which include portions of the current C-APE. One previous study (S-45758 [Koenig and Brewster, 2014]) was conducted for a previous project on the same parcels as the current Project. That study resulted in the original recordation of the four historic-era buildings (P-43-003148, -003149, -003150, -003151) previously recorded in the C-APE, and also evaluated the four buildings as not eligible for the California Register (Koenig and Brewster, 2014). The project for which the Koenig and Brewster (2014) report was produced resulted in the demolition of P-43-003148, -003149, -003150, and -003151. **Table 2** summarizes the previous cultural resources studies that have been conducted in or within 0.5 mile of the APE.

TABLE 2. PREVIOUS CULTURAL RESOURCES STUDIES IN OR WITHIN 0.5 MILE OF C-APE

Study	Title	Author (Date)	In C-APE
1137	Cultural Resources Along the Sacramento River from Keswick Dam to Sacramento	Johnson and Johnson (1974)	Yes
3134	An Archaeological Assessment within Reclamation District 1500 and the Tisdale Bypass, Sutter County, California Part of the Cultural Resources Inventory and Evaluation for U.S. Army Corps of Engineers, Sacramento District, PL 84-99 Levee Rehabilitation	Shapiro and Syda (1997)	Yes
8345	Archaeological Survey Report, 04-SCL-101, Portions of P.M. 38.3/52.5, Improvements to Route 101 Between Route 17 in San Jose and Embarcadero Road in Palo Alto, Santa Clara County, 04393-389131, 04393-396171	Melandry (1980)	Yes
18367	Historic Property Survey Report and Finding of No Effect for the Proposed Ramp Metering and HOV Ramp Project, 4-SCL-101 PM 40.0/52.5, EA 132451	Hylkema (1995)	Yes
25529	Historic Property Survey Report for the U.S. 101/S.R. 85 Interchange Improvement Project, 04-SCL-101/ K.P. 75.26 to 79.59 (P.M. 47.4 to 48.7), Mountain View, Santa Clara County, California (EA 43880K)	Miller (2001)	Yes
43191	Historic Property Survey Report, State Route 85 Express Lanes Project, Santa Clara County, California, EA 4A7900, EFIS 0400001163, US 101 PM 23.1-28.6, SR 85 PM 0.0-24.1, US 101 PM 47.9-52.0	Kubal and Rehor (2013)	Yes
45758	Cultural Resources Study for the 1001 N. Shoreline Project (letter report)	Koenig and Brewster (2014)	Yes
4175	Archaeological Evaluation of the Kaiser Truck Parking Facility, Mountain View, California	Edwards (2000)	No
4492	An archaeological field reconnaissance of both banks of Stevens Creek between the bay and Homestead Boulevard in Mountain View, California (letter report)	Holman (1978)	No
4766	Archaeological Resources of the Proposed Mountain View Water Main, Project #76-54, EDA #07-51-01907	Winter (1977)	No
8371	Cultural Resources Evaluations for the Proposed Navy Housing Locations at Moffett Field, Santa Clara County, California	NA (1981)	No

Study	Title	Author (Date)	In C-APE
9440	Archaeological Survey Report for the Proposed Improvements to the Routes 85, 101, 237 Triangle and Route 85 from Stevens Creek Blvd. to Route 101 in Santa Clara County, 4-SCL-85 PM 17.7/23.9, 4-SCL-101 PM 44.9/49.5, 4-SCL-237 PM 0.4/3.8, EA 04282-437060	Kelly (1987)	No
18286	Historic Property Survey Report, Improvement of a Portion of Route 85, 04-SCL-85 P.M. R35.6/R38.3 04-234-43820K	Chavez (1996)	No
33061	Cultural Resources Final Report of Monitoring and Findings for the Qwest Network Construction Project, State of California	Sikes et al. (2006)	No
33596	Cultural Resource Inventory and Evaluation of United States Army Reserve 63D Regional Readiness Command Facilities; Contract No. W912C8-05-P-0052	Maniery and Baker (2007)	No
33697	Palo Alto Regional Water Quality Control Plant Reuse Pipeline, Santa Clara County, California: Cultural Resources Inventory	Martorana (2007)	No
37075	Historic Resources Compliance Report for the U.S. 101 Auxiliary Lanes (Route 85 to Embarcadero Road) Project, Santa Clara County, California 04-SCL-101 PM 52.17-48.97 EA 04-4A330	Whitaker (2008)	No
38808	Extended Phase I Geoarchaeological Study for the State Route 85 Proposed Freeway Performance Initiative Project, Santa Clara County, California, EA 15420, EFIS 04000020481, 04-SR-85 PM R 18.45/23.87	Scher (2012)	No
39663	Cultural Resources Records Search and Site Visit Results for T-Mobile West LLC Candidate SFO4556 (La Avenida Street), 1280 La Avenida Street, Mountain View, Santa Clara County, California (letter report)	Kubal and Rehor (2013)	No
44017	Cultural Resources Inventory and Evaluation of the United States Army Reserve, Jones Hall USAR Center, Mountain View, California, P-43-001836, 63D Regional Readiness Command Facility CA031, Contract No. W912C8-05-0052	PAR Environmental Services Inc. (2007)	No
44025	Cultural Resources Study of the Mountain View ODAS Project, Nodes P3N1A, P3N5A, P3N9A, P3N11A, P3N23A, P3N24A, P3N28A, P3N30A, P3N33B, P3N37A, P3N37A, P3N38A, P3N49A, Mountain View and Los Altos, Santa Clara County, California	Historic Resource Association (2012)	No
45670	Historic Property Survey Report, US 101 Express Lanes Project, Santa Clara County, California, Project No. 0412000459/EA 2G7100, 04-SCL-101 PM 16.00/52.55, 04-SCL-85 PM 23.0/24.1	Kubal (2014)	No
46675	Phase I / Extended Phase 1 Archaeological Survey of Approximately 30 Acres at Mountain View, 63D Regional Support Command, Headquarters, Santa Clara County, California, Contract No: W91278-14-D-0064	Heffiner and Allen (2015)	No
4175	Archaeological Evaluation of the Kaiser Truck Parking Facility, Mountain View, California	Edwards (2000)	No
4492	An archaeological field reconnaissance of both banks of Stevens Creek between the bay and Homestead Boulevard in Mountain View, California (letter report)	Holman (1978)	No

Archaeological Sensitivity

The goal of this archaeological sensitivity analysis is to identify the relative potential of encountering previously unrecorded buried archaeological resources within the C-APE, with attention given to the relationship between the general potential for the presence of archaeological deposits and the potential significance of any buried cultural resources that might be encountered. The general potential for the presence of buried archaeological resources is determined by assessing the age of surficial and subsurface geology and soil units, the proximity of perennial freshwater sources, the density of nearby previously recorded archaeological resources, the regional context in which archaeological resources are often encountered, and the proximity of known ethnohistoric indigenous sites or historic-era resources that could have left archaeological traces. The potential significance of possible buried cultural resources is based upon an informed estimate of the likelihood of encountering relatively undisturbed archaeological deposits that are likely to yielded, or have the potential to yield, information important to the pre-contact archaeology or history of the local area, California or the nation, such that the archaeological deposit has the potential to be eligible for the California Register. The “level” of sensitivity (e.g., low, moderate,

high) represents the relationship between the general potential for buried archaeological resources and an estimation of the likelihood of encountering potentially significant archaeological deposits.

The C-APE is underlain by Holocene-age alluvial fan deposits. Active alluvial deposits are generally less than 5,000 years old and overlie older land surfaces (including stabilized or abandoned Pleistocene-age surfaces). In many places, the interface between older land surfaces and Holocene-age alluvial deposits is marked by a well-developed buried soil profile, or a paleosol. Paleosols preserve the composition and character of the earth's surface prior to subsequent sediment deposition; thus, paleosols have the potential to preserve archaeological resources if the area was occupied by humans (Rosenthal and Meyer, 2004). There are also two freshwater sources relatively close to the C-APE. The seasonal Permanente Creek is approximately 0.5 mile to the west and the perennial Stevens Creek is 0.4 mile to the east. In addition, numerous deeply buried sites have been uncovered in the Santa Clara Valley, at depths varying between 1 foot and more than 10 feet below the ground surface. In fact, more than 60 percent of recorded archaeological sites in this region have been found in a buried context (Meyer and Rosenthal, 2007). The soil type and age, nearby freshwater sources, and the buried context in which many Santa Clara Valley archaeological sites are encountered all indicate a moderately-high potential for the presence of archaeological deposits in the C-APE.

Conversely, while the C-APE is within the ethnohistorical territory of the *Puichon*, there are no known ethnographic sites nearby. There are also no previously recorded indigenous or historic-era archaeological sites within 0.5 mile of the C-APE, and the surrounding area was predominately agricultural land until the early-twentieth century. Finally, the previous development and agricultural uses in the C-APE likely resulted in a fair amount of ground disturbance, making it unlikely that the C-APE contains undisturbed archaeological resources, at least at shallow depths.

The Holocene age of the surrounding alluvial soils, and the presence of nearby natural freshwater sources, and discovery of numerous buried archaeological resources in the region all indicate a moderately-high general potential for the presence of buried archaeological resources in the C-APE, but the absence of known nearby indigenous or historic-era archaeological resources lowers the general potential, and the history of ground disturbance in the C-APE and vicinity indicates a low potential for encountering intact significant archaeological resources in the C-APE. Therefore, overall, the C-APE has a moderate archaeological sensitivity.

Native American Heritage Commission Outreach

ESA contacted the California Native American Heritage Commission (NAHC) on January 25, 2018 via email to request a search of the NAHC's Sacred Lands File (SLF) and a list of Native American representatives who may have interest in the Project. The NAHC replied to ESA by email on January 26, 2018. The NAHC reply indicated that the SLF has no record of any cultural resources in the C-APE, and also included a list of Native American representatives who may be interested in the Project. On November 7, 2018 the City sent a letter with a description of the Project and an attached map to each of the six Native American representatives listed on the NAHC reply. To date there has been no responses to the letters by any of the Native American representatives

contacted. **Attachment C** provides documentation of the correspondence with the NAHC and copies of the letters sent.

Pedestrian Survey

On January 26, 2019, ESA Archaeologist Heidi Koenig conducted a pedestrian survey of the C-APE. The C-APE is currently a parking lot, therefore modified pedestrian survey methods were used, consisting of intensively examining areas of visible ground and observing the overall condition of the C-APE. Digital photographs were taken to document survey conditions. Ground conditions in the C-APE consisted of two asphalt paved parkinglots with landscaping in adjacent planters. Ground visibility during the pedestrian survey was very poor due to the paved surface of the parking lot, and was consistently below 10%. **Photos 1** to **3** depict conditions in the C-APE during the survey.

No cultural resources were identified in the C-APE, including no evidence of the two previously recorded demolished historic-era buildings.

Impacts Assessment

There are no architectural historical resources in the C-APE, so this section primarily assesses the potential impacts to previously unrecorded archaeological resources, both as historical resources according to CEQA Guidelines (codified at Title 14 California Code of Regulations Section 15000 *et seq*) Section 15064.5, as well as unique archaeological resources, as defined in California Public Resources Code (PRC) Section 21083.2(g). Human remains, including those buried outside of formal cemeteries, are also protected under several state laws, including PRC Section 5097.98 and California Health and Safety Code (HSC) Section 7050.5. In addition, CEQA requires that a project's impacts on TCRs be considered as part of the overall analysis of project impacts (PRC Sections 21080.3.1, 21084.2, 21084.3). TCRs are:

- Sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe that are either of the following:
    - included or determined to be eligible for inclusion in the California Register; or
    - included in a local register of historical resources, as defined in PRC Section 5020.1(k).

TCRs are also any resource determined by the CEQA lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in PRC Section 5024.1(c). In applying these criteria, the lead agency would consider the significance of the resource to a California Native American tribe. A cultural landscape that meets the criteria of PRC Section 21074(a) is also a TCR if the landscape is geographically defined in terms of the size and scope. Also, an historical resource as described in PRC Section 21084.1, a unique archaeological resource as defined in PRC Section 21083.2, or a non-unique archaeological resource as defined in PRC Section 21083.2 may also be a TCR if it meets the criteria of PRC Section 21074(a).

A significant impact would occur if the Project would:

- Cause a substantial adverse change in the significance of a historical resource as defined in CEQA Guidelines Section 15064.5;
- Cause a substantial adverse change in the significance of an archaeological resource pursuant to CEQA Guidelines Section 15064.5;
- Disturb any human remains, including those interred outside of formal cemeteries; or
- Cause a substantial adverse change in the significance of a TCR as defined in PRC Section 21074.

No evidence of archaeological resources in the C-APE was identified by the background research, records search, or pedestrian survey conducted for the Project. Based on the archaeological sensitivity analysis conducted for this investigation, the C-APE has a moderate archaeological sensitivity. There is no indication that the C-APE contains human remains, but the possibility cannot be completely discounted. The discovery of previously unknown archaeological resources or human remains is always possible in the alluvial Holocene-age soils of the Santa Clara Valley, such as those present in the C-APE. If previously unrecorded archaeological deposits are present in the C-APE, and if they are found to qualify as archaeological resources, pursuant to CEQA Guidelines Section 15064, impacts to the resources resulting from the Project would be potentially significant. Similarly, if any previously unknown human remains are present in the C-APE, impacts to them from the Project would be potentially significant. Outreach to the NAHC and local Native American representatives did not result in the identification of any TCRs that could be impacted by the Project. As discussed above, if any previously unrecorded archaeological resources and/or human remains are present in the C-APE, were encountered during Project construction, and found to be a TCR, impacts to the resource resulting from the Project would be potentially significant.

Though there are no known archaeological resources, human remains, or TCRs that would be impacted by the Project, as described above, there remains the possibility that previously unknown or unrecorded such resources could be impacted by the Project. Any such impacts would be reduced to a less than significant level with implementation of the following recommended mitigation measures.

- **Protocol for Inadvertent Discovery of Archaeological Resources**

  To reduce potential impacts to archaeological resources during Project construction, the following mitigation measure is recommended:

  > If indigenous or historic-era archaeological resources are encountered during Project construction activities, all activity within 100 feet of the find shall cease and the find shall be flagged for avoidance. The City of Mountain View and a qualified archaeologist, defined as one meeting the U.S. Secretary of the Interior's Professional Qualifications Standards for Archeology, shall be immediately informed of the discovery. The qualified archaeologist shall inspect the find within 24 hours of discovery and notify the City of Mountain View of their initial assessment. Indigenous archaeological materials might include obsidian and chert flaked-stone tools (e.g., projectile points, knives, scrapers) or toolmaking debris; culturally darkened soil (midden) containing heat-affected rocks, artifacts, or shellfish remains; and stone milling equipment (e.g., mortars, pestles, handstones, or milling slabs); and battered stone tools, such as hammerstones and pitted stones. Historic-era

materials might include building or structure footings and walls, and deposits of metal, glass, and/or ceramic refuse.

If the City of Mountain View determines, based on recommendations from the qualified archaeologist, that the resource may qualify as a historical resource or unique archaeological resource (as defined in CEQA Guidelines Section 15064.5), or a tribal cultural resource (as defined in PRC Section 21074), the resource shall be avoided if feasible. Avoidance means that no activities associated with the Project that may affect cultural resources shall occur within the boundaries of the resource or any defined buffer zones. If avoidance is not feasible, the City of Mountain View shall consult with appropriate Native American tribes (if the resource is indigenous), and other appropriate interested parties to determine treatment measures to avoid, minimize, or mitigate any potential impacts to the resource pursuant to PRC Section 21083.2 and CEQA Guidelines Section 15126.4. This shall include documentation of the resource and may include data recovery or other measures. Treatment for most resources would consist of (but would not be not limited to) sample excavation, artifact collection, site documentation, and historical research, with the aim to target the recovery of important scientific data contained in the portion(s) of the significant resource. The resource and treatment method shall be documented in a professional-level technical report to be filed with the California Historical Resources Information System. Work in the area may commence upon completion of approved treatment and under the direction of the qualified archaeologist.

- **Protocol for Inadvertent Discovery of Human Remains:**

  To reduce potential impacts to human remains during Project construction, the following mitigation measure is recommended:

  If human remains are uncovered during Project construction, all work shall immediately halt at the find and the Santa Clara County Coroner shall be contacted to evaluate the remains, and follow the procedures and protocols set forth in CEQA Guidelines Section 15064.5(e)(1). If the County Coroner determines that the remains are Native American, the County shall contact the NAHC, in accordance with Health and Safety Code Section 7050.5(c) and PRC Section 5097.98. Per PRC Section 5097.98, the City of Mountain View shall ensure that the immediate vicinity, according to generally accepted cultural or archaeological standards or practices, where the Native American human remains are located is not damaged or disturbed by further development activity until the City of Mountain View has discussed and conferred, as prescribed in this section (PRC Section 5097.98), with the most likely descendants regarding their recommendations, if applicable, taking into account the possibility of multiple human remains.

Summary

The background research conducted for the current investigation identified two previously recorded cultural resources within the C-APE (P-43-003149, -003150). Both cultural resources were historic-era buildings, were demolished subsequent to being recorded in 2014, and are no longer in the C-APE. The background research did

not identify any archaeological resources in the C-APE, and outreach to the NAHC and relevant Native Americans did not result in the identification of any TCRs that might be impacted by the Project. The background research also did not identify any known human remains in the C-APE. The cultural resources pedestrian survey of the C-APE documented in this report did not identify any cultural resources in the C-APE, nor any indication of human remains. The C-APE has a moderate archaeological sensitivity, though previous ground-disturbing activities in the C-APE make it unlikely that intact significant archaeological deposits will be encountered by the Project. Though it is unlikely that the Project will encounter archaeological resources, human remains, or TCRs ESA recommends implementation of two mitigation measures for the Project (*Protocol for Inadvertent Discovery of Archaeological Resources*; *Protocol for Inadvertent Discovery of Human Remains*) to reduce any potential impacts to unknown cultural resources in the C-APE to a less than significant level.

Please contact me with any questions or comments,

Sincerely,



Ben Curry, PhD, RPA
Archaeologist
bcurry@esassoc.com

References

Brewster, Brad, *P-43-003149,* California Department of Parks and Recreation 523 Form set (site record), On file at the Northwest Information Center, Sonoma State University, Rohnert Park, CA, 16 December, 2014a.

Brewster, Brad, *P-43-003150,* California Department of Parks and Recreation 523 Form set (site record), On file at the Northwest Information Center, Sonoma State University, Rohnert Park, CA, 16 December, 2014b.

Brewster, Brad, *P-43-003148,* California Department of Parks and Recreation 523 Form set (site record), On file at the Northwest Information Center, Sonoma State University, Rohnert Park, CA, 16 December, 2014c.

Brewster, Brad, *P-43-003151,* California Department of Parks and Recreation 523 Form set (site record), On file at the Northwest Information Center, Sonoma State University, Rohnert Park, CA, 16 December, 2014d.

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Levy, Richard, "Costanoan", In *California*, edited by Robert F. Heizer, pp. 485-495, Handbook of North American Indians, Vol. 8, William C. Sturtevant, general editor, Smithsonian Institution, Washington, D.C., 1978.

Meyer, Jack, and Jeffery Rosenthal, *Geoarchaeological Overview of the Nine Bay Area Counties in Caltrans District 4*, Prepared by Far Western Anthropological Research Group, Inc., Davis, CA, Prepared for Caltrans District 4, Oakland, June, 2007.

Milliken, Randall, *A Time of Little Choice: The Disintegration of Tribal Culture in the San Francisco Bay Area, 1769-1810*, Ballena Press Anthropological Papers Number 43, 1995.

Milliken, Randall, Richard T. Fitzgerald, Mark G. Hylkema, Randy Groza, Tom Origer, David G. Bieling, Alan Leventhal, Randy S. Wiberg, Andrew Gottfield, Donna Gillette, Vaviana Bellifemine, Eric Strother, Robert Cartier, and David A. Fredrickson, "Punctuated Culture Change in the San Francisco Bay Area", In *Prehistoric California: Colonization, Culture, and Complexity*, Edited by Terry L. Jones and Kathryn A. Klar, pp. 99-124, AltaMira Press, 2007.

Milliken, Randall, Laurence H. Shoup, and Beverley R. Ortiz, *Ohlone/Costanoan Indians of the San Francisco Peninsula and their Neighbors, Yesterday and Today*, Prepared for National Park Service, Golden Gate National Recreation Area, June, 2009.

Rosenthal, Jeffrey S., and Jack Meyer, *Landscape Evolution and the Archaeological Record: A Geoarchaeological Study of the Southern Santa Clara Valley and Surrounding Region*, Center for Archaeological Research at Davis Publication 14, University of California, Davis, 2004.

Attachment A
Maps

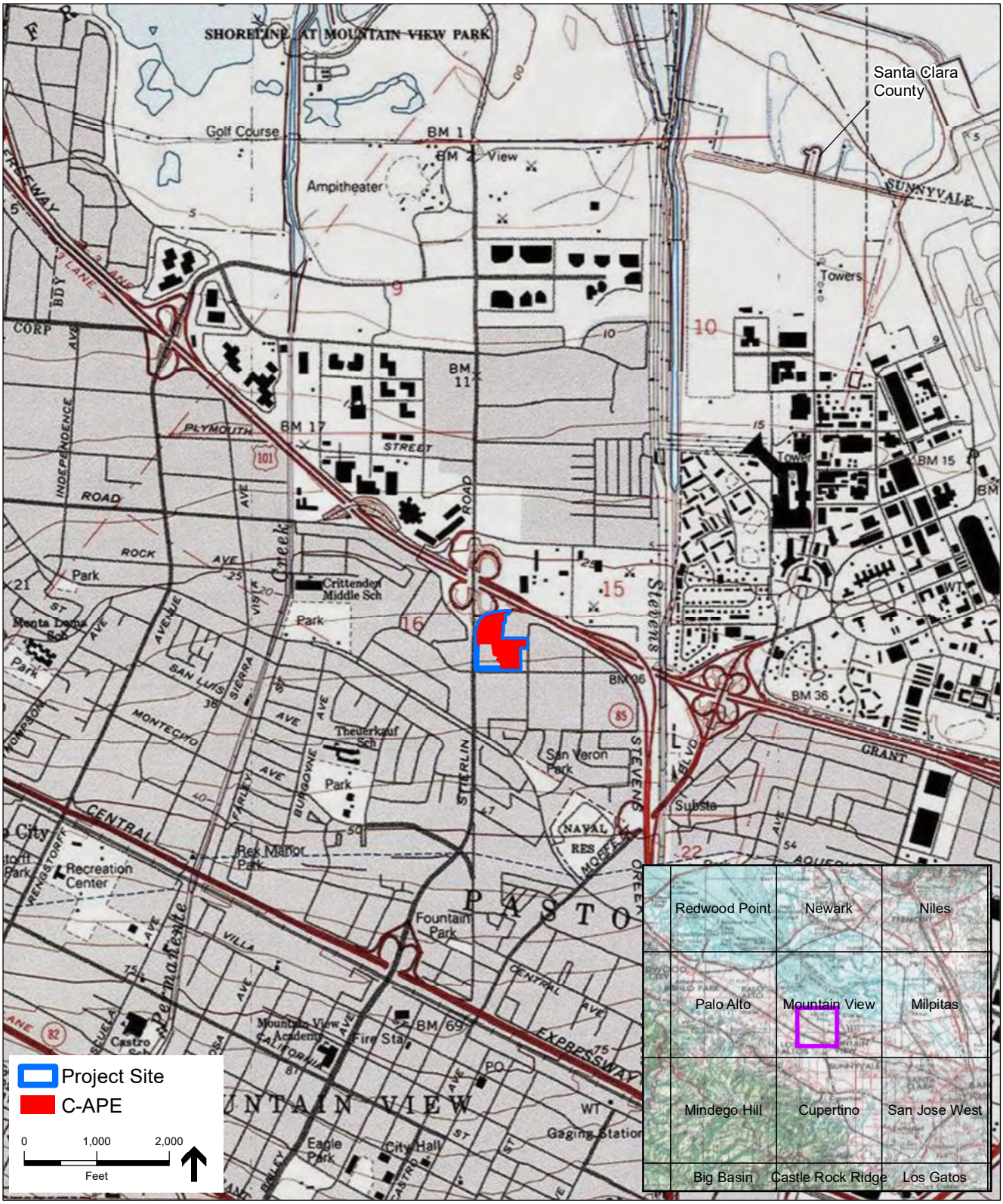


SOURCE: National Geographic, 2019; ESA, 2019

Residences @ Shoreline Gateway Project. 170621

Map 1

Project Vicinity



SOURCE: ESRI, 2019; ESA, 2019

Residences @ Shoreline Gateway Project. 170621

Map 2

Project Location



SOURCE: ESRI, 2014; ESA, 2019

Residences @ Shoreline Gateway Project. 170621

Map 3

CEQA Area of Potential Effects

Attachment B
Photographs

Photo 1. Overview of Landscaped Drainage at NW Corner of C-APE, View WSW



Photo 2. Overview of NW Portion of C-APE, View SE



Photo 3. Overview of SE Portion of C-APE, View N



Attachment C
Native American Correspondence

Native American Correspondence Log

No.	Date	From	To	Type	Subject
1	January 25, 2018	Jill Feyk-Miney, ESA	NAHC	email with formal request and map	Sacred Lands File request and NA contacts list request.
2	January 26, 2018	Sharaya Souza, NAHC	Jill Feyk-Miney	email with attachment	Sacred Lands File results and NA contacts list.
3	November 7, 2018	Clarissa Burke, City of Mountain View	Rosemary Cambra, Muwekma Ohlone Indian Tribe of the SF Bay Area	letter with map	Project information and request for information on or concerns about cultural resources that may be impacted.
4	November 7, 2018	Clarissa Burke	Andrew Galvan, The Ohlone Indian Tribe	letter with map	Project information and request for information on or concerns about cultural resources that may be impacted.
5	November 7, 2018	Clarissa Burke	Katherine Erolinda Perez, North Valley Yokuts Tribe	letter with map	Project information and request for information on or concerns about cultural resources that may be impacted.
6	November 7, 2018	Clarissa Burke	Ann Marie Sayers, Indian Canyon Mutsun Band of Costanoan	letter with map	Project information and request for information on or concerns about cultural resources that may be impacted.
7	November 7, 2018	Clarissa Burke	Valentin Lopez, Amah Mutsun Tribal Band of Mission San Juan Bautista	letter with map	Project information and request for information on or concerns about cultural resources that may be impacted.
7	November 7, 2018	Clarissa Burke	Irenne Zwierlein, Amah Mutsun Tribal Band of Mission San Juan Bautista	letter with map	Project information and request for information on or concerns about cultural resources that may be impacted.

From: Jillian Feyk-Miney
Sent: Thursday, January 25, 2018 3:02 PM
To: 'nahc@nahc.ca.gov'
Subject: Residences @ Shoreline Gateway Project Sacred Lands file request
Attachments: Sacred-Lands-File-NA-Contact-Form 1-25-17.pdf

Good afternoon,

Please find the attached request for a Sacred Lands File search for the Residences @ Shoreline Gateway Project in Mountain View. If you need any additional information, please let me know.

Best regards,

Jill Feyk-Miney
Associate
ESA | Environmental Science Associates
180 Grand Avenue, Suite 1050
Oakland, CA 94612
510.839-5066 main | 510.463-6737 direct
jfeyk-miney@esassoc.com | www.esassoc.com

Follow us on Facebook | Twitter | LinkedIn

Sacred Lands File & Native American Contacts List Request

Native American Heritage Commission
1550 Harbor Blvd, Suite 100
West Sacramento, CA 95691
916-373-3710
916-373-5471 – Fax
nahc@nahc.ca.gov

Information Below is Required for a Sacred Lands File Search

Project: Residences @ Shoreline Gateway

County: Santa Clara

USGS Quadrangle Name: Mountain View

Township: 6S **Range:** 2W **Section(s):** N/A

Company/Firm/Agency: Environmental Science Associates

Street Address: 180 Grand Avenue, Ste 1050

City: Oakland **Zip:** 94612

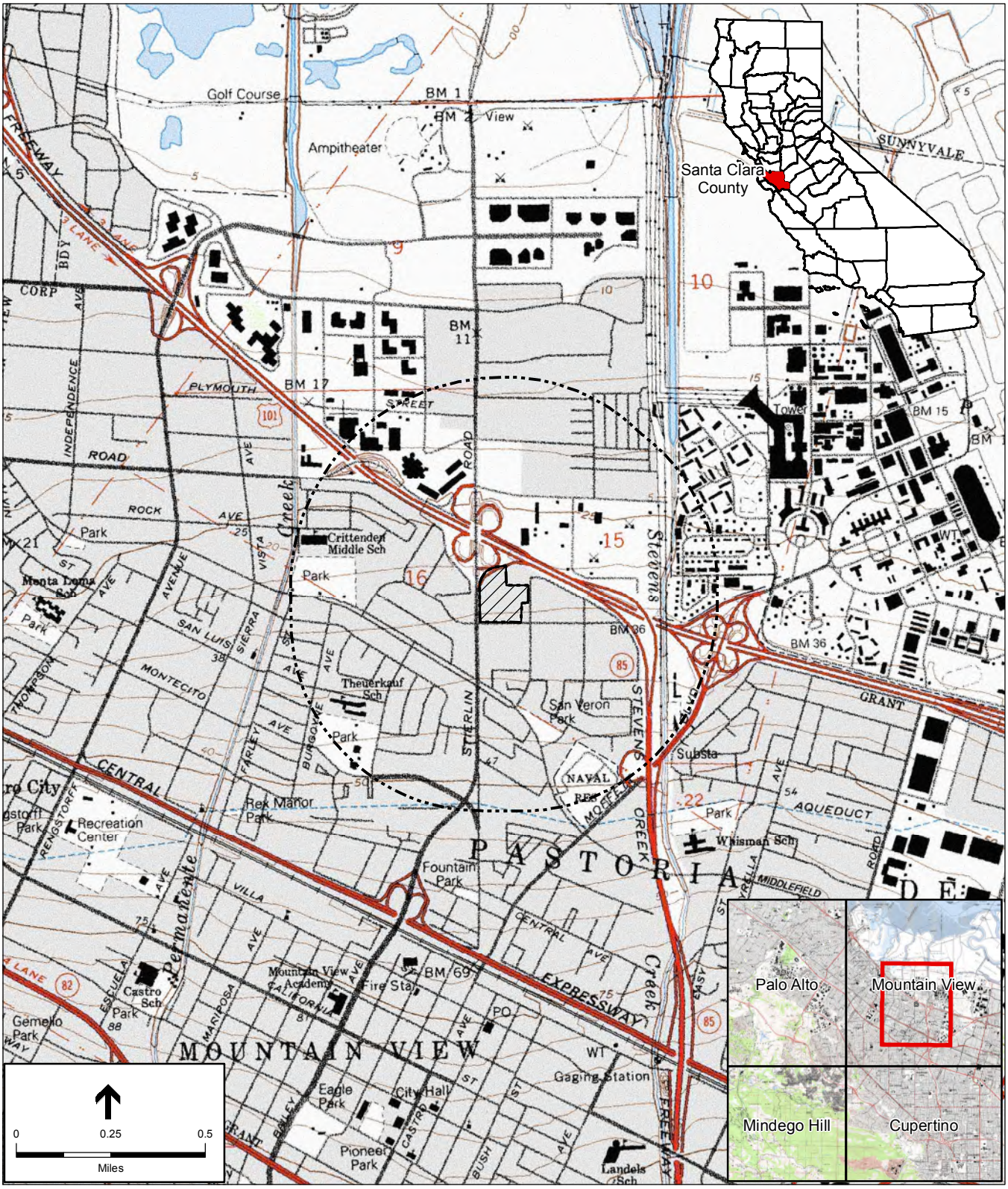
Phone: 510-463-6737

Fax: 510-839-5825

Email: jfeyk-miney@esassoc.com

Project Description:

Environmental Science Associates (ESA) has been contracted to assess potenetial impacts to cultural resources as part of the Residences @ Shoreline Gateway Project in Mountain View, CA. The project area is shown in the attached Figure, as depicted on the Mountain View US Geological Survey 7.5 minute topographic quadrangle. The project would redevelop existing surface parking and landscaping into an apartment building, a condominium building, and a six-level parking garage. A recently constructed office building would remain on-site.



SOURCE: USGS Mt. View, Calif. 7.5-minute topographic quadrangle

Residences @ Shoreline Gateway Project . 170621

Figure 1

Project Location

NATIVE AMERICAN HERITAGE COMMISSION
Environmental and Cultural Department
1550 Harbor Blvd., ROOM 100
West SACRAMENTO, CA 95691
(916) 373-3710
Fax (916) 373-5471

January 26, 2018

Jill Feyk-Miney
ESA

Email to: jfeyk-miney@esassoc.com

RE: Residences at Shoreline Gateway, Santa Clara County

Dear Ms. Feyk-Miney,

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative. However, the absence of specific site information in the SLF does not preclude the presence of cultural resources in any project area. Other sources for cultural resources should also be contacted for information regarding known and/or recorded sites.

Enclosed is a list of Native Americans tribes who may have knowledge of cultural resources in the project area. I suggest you contact all of those indicated, if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from any of these tribes, please notify me. With your assistance we are able to assure that our lists contain current information. If you have any questions or need additional information, please contact me at 916-573-1033 or frank.lienert@nahc.ca.gov.

Sincerely,

Frank Lienert
Associate Governmental Program Analyst

Native American Heritage Commission
Native American Contacts
1/26/2018

Amah MutsunTribal Band
Valentin Lopez, Chairperson
P.O. Box 5272
Galt , CA 95632
vlopez@amahmutsun.org
(916) 743-5833

Ohlone/Costanoan
Northern Valley Yokuts

Indian Canvon Mutsun Band of Costanoan
Ann Marie Savers, Chairperson
P.O. Box 28
Hollister , CA 95024
ams@indiancanyon.org
(831) 637-4238

Ohlone/Costanoan

Amah MutsunTribal Band of Mission San Juan Bautista
Irenne Zwierlein, Chairperson
789 Canada Road
Woodside , CA 94062
amahmutsuntribal@gmail.com
(650) 851-7489 Cell
(650) 851-7747 Office
(650) 332-1526 Fax

Ohlone/Costanoan

North Valley Yokuts Tribe
Katherine Erolinda Perez, Chairperson
P.O. Box 717
Linden , CA 95236
canutes@verizon.net
(209) 887-3415

Ohlone/Costanoan
Northern Valley Yokuts
Bay Miwok

Muwekma Ohlone Indian Tribe of the SF Bay Area
Rosemary Cambra, Chairperson
P.O. Box 360791
Milpitas , CA 95036
muwekma@muwekma.org
(408) 314-1898

(510) 581-5194

Ohlone / Costanoan

The Ohlone Indian Tribe
Andrew Galvan
P.O. Box 3152
Fremont , CA 94539
chochenyo@AOL.com
(510) 882-0527 Cell

(510) 687-9393 Fax

Ohlone/Costanoan
Bay Miwok
Plains Miwok
Patwin

This list is current only as of the date of this document and is based on the information available to the Commission on the date it was pr oduced.

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native American Tribes with regard to cultural resources assessments for the proposed Residences at Shoreline Gateway, Santa Clara County

CITY OF MOUNTAIN VIEW

November 7, 2018
Attn: Valentin Lopez, Chairperson
Amah Mutsun Tribal Band
P.O. Box 5272
Gait, CA 95632
Phone: (916) 743-5833
vlopez@amahmutsun.org

Dear Mr. Lopez:

The City of Mountain View has received an application for development of the Residences @ Shoreline Gateway Project (proposed project), located at 1001 N. Shoreline Boulevard in Mountain View. The proposed project is subject to the California Environmental Quality Act (CEQA), with the City of Mountain View acting as lead CEQA agency. In accordance with Senate Bill 18, and consistent with Assembly Bill 52, as discussed below, the City of Mountain View would like to invite Native American tribes and individuals to participate in the local planning process.

The proposed project would include removing existing surface parking, landscaping, and private recreation areas, and constructing three new buildings with recreation facilities and common amenity space in these areas. The proposed project would include a new, seven- to eight-story residential structure with approximately 3,000 square feet of ground floor retail, two levels of podium parking, and 203 apartment units; and a new, seven-story residential structure with two levels of podium parking and 100 condominium units, to the north and east of an existing office building on the project site. The existing office building would remain at the site. The proposed project would also include a six-story parking structure to accommodate parking for the existing office building. The proposed project would require text and map amendments to the City of Mountain View 2030 General Plan. Please see the attached map for the proposed project location (Attachment).

A records search of the California Historical Resources Information System indicates that no archaeological resources have been previously identified in or within 0.5 miles of the proposed project site.

The City of Mountain View would like to provide you with an opportunity to communicate concerns you might have regarding historical resources or tribal cultural resources important to your community that could be impacted by the proposed project. The City of Mountain View requests your participation in the identification and protection of historical resources and tribal cultural resources that could be impacted by the proposed project, with the understanding that you or other members of your community might possess specialized knowledge of the area.

Please consider this letter and preliminary project information as formal notification of a proposed project as required under CEQA, specifically Public Resources Code § 21080.3.1 and Chapter 532 Statutes of 2014 (i.e. Assembly Bill 52). Please respond in writing within 30 days, pursuant to PRC § 21080.3.1(d) if you

wish to request consultation regarding possible significant effects that the proposed project may have on tribal cultural resources. Please provide a designated lead contact person if you have not already provided such information.

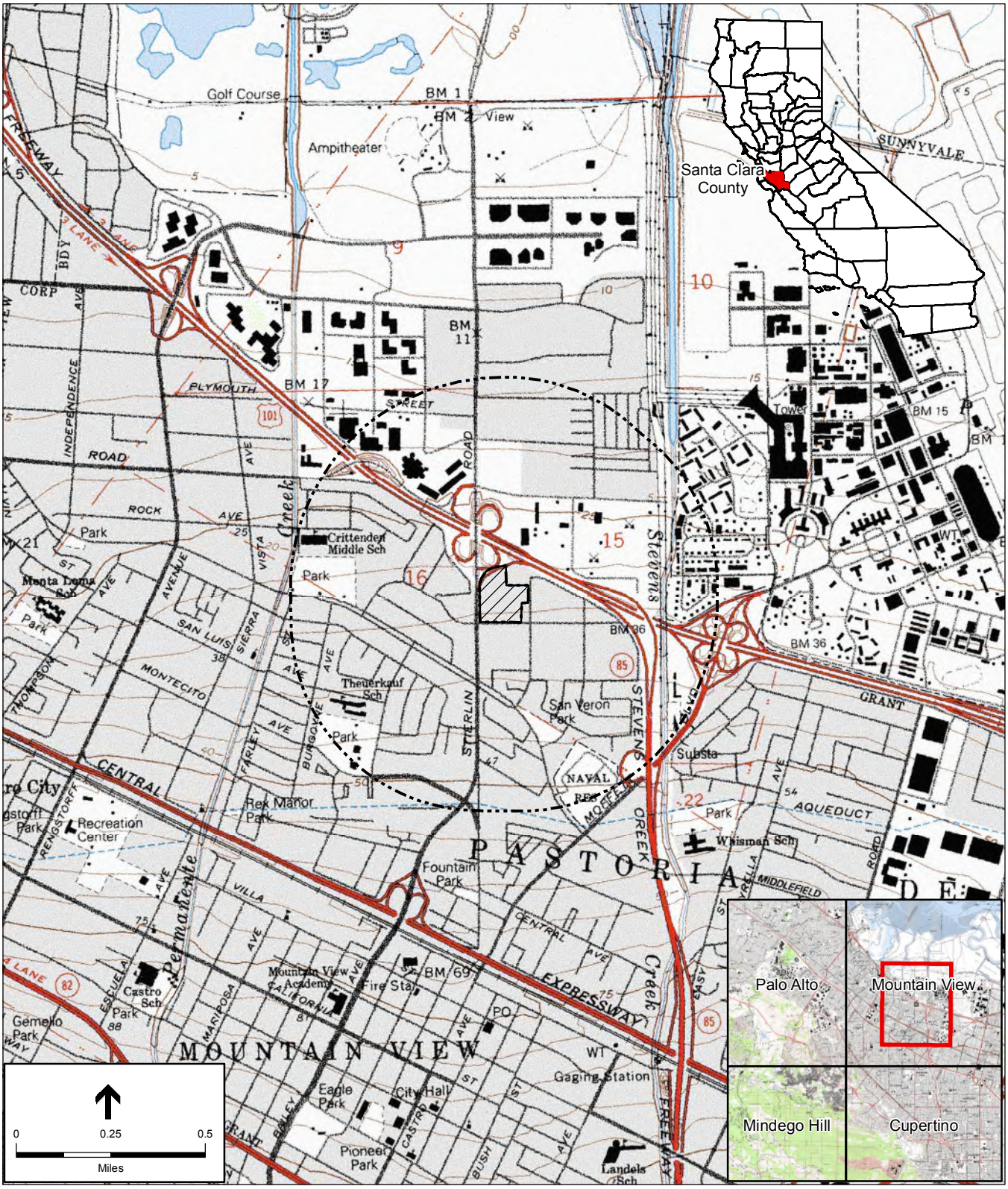
If you or any of your tribal members have any questions or concerns regarding the proposed project please contact me:

Clarissa Burke, Associate Planner
City of Mountain View
Community Development Department
500 Castro Street, P.O. Box 7540
Mountain View, CA 94039-7540
(650) 903-6306
Clarissa.Burke@mountainview.gov

Sincerely,

Clarissa Burke

Attachment: Figure 1, Project Location



SOURCE: USGS Mt. View, Calif. 7.5-minute topographic quadrangle

Residences @ Shoreline Gateway Project . 170621

Figure 1

Project Location

CITY OF MOUNTAIN VIEW

November 7, 2018
Attn: Rosemary Cambra, Chairperson
Muwekma Ohlone Indian Tribe of the SF Bay Area
P.O. Box 360791
Milpitas, CA 95036
Phone: (408) 314-1898
muwekma@muwekma.org

Dear Ms. Cambra:

The City of Mountain View has received an application for development of the Residences @ Shoreline Gateway Project (proposed project), located at 1001 N. Shoreline Boulevard in Mountain View. The proposed project is subject to the California Environmental Quality Act (CEQA), with the City of Mountain View acting as lead CEQA agency. In accordance with Senate Bill 18, and consistent with Assembly Bill 52, as discussed below, the City of Mountain View would like to invite Native American tribes and individuals to participate in the local planning process.

The proposed project would include removing existing surface parking, landscaping, and private recreation areas, and constructing three new buildings with recreation facilities and common amenity space in these areas. The proposed project would include a new, seven- to eight-story residential structure with approximately 3,000 square feet of ground floor retail, two levels of podium parking, and 203 apartment units; and a new, seven-story residential structure with two levels of podium parking and 100 condominium units, to the north and east of an existing office building on the project site. The existing office building would remain at the site. The proposed project would also include a six-story parking structure to accommodate parking for the existing office building. The proposed project would require text and map amendments to the City of Mountain View 2030 General Plan. Please see the attached map for the proposed project location (Attachment).

A records search of the California Historical Resources Information System indicates that no archaeological resources have been previously identified in or within 0.5 miles of the proposed project site.

The City of Mountain View would like to provide you with an opportunity to communicate concerns you might have regarding historical resources or tribal cultural resources important to your community that could be impacted by the proposed project. The City of Mountain View requests your participation in the identification and protection of historical resources and tribal cultural resources that could be impacted by the proposed project, with the understanding that you or other members of your community might possess specialized knowledge of the area.

Please consider this letter and preliminary project information as formal notification of a proposed project as required under CEQA, specifically Public Resources Code § 21080.3.1 and Chapter 532 Statutes of 2014

(i.e. Assembly Bill 52). Please respond in writing within 30 days, pursuant to PRC § 21080.3.1(d) if you wish to request consultation regarding possible significant effects that the proposed project may have on tribal cultural resources. Please provide a designated lead contact person if you have not already provided such information.

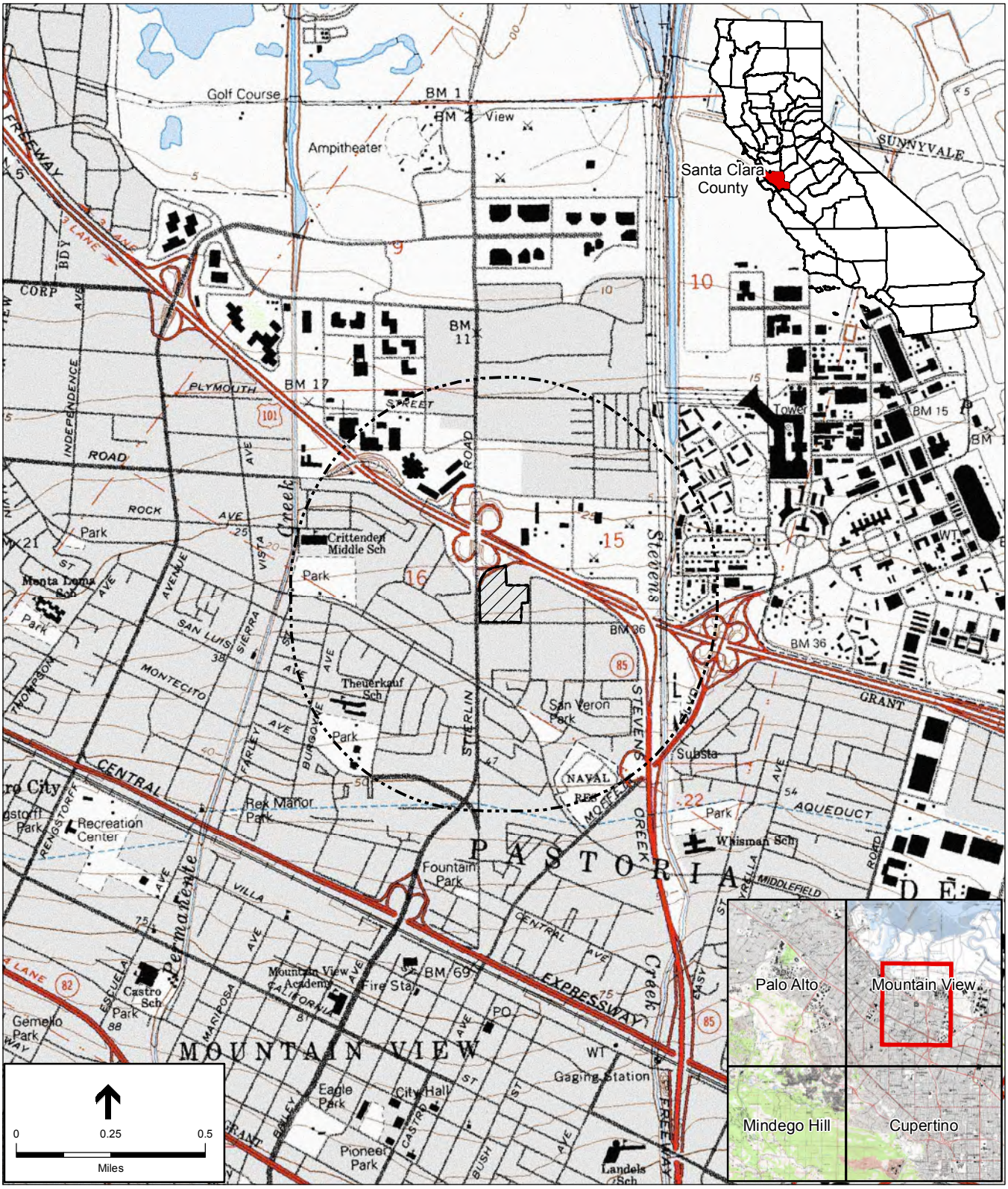
If you or any of your tribal members have any questions or concerns regarding the proposed project please contact me:

Clarissa Burke, Associate Planner
City of Mountain View
Community Development Department
500 Castro Street, P.O. Box 7540
Mountain View, CA 94039-7540
(650) 903-6306
Clarissa.Burke@mountainview.gov

Sincerely,

Clarissa Burke

Attachment: Figure 1, Project Location



SOURCE: USGS Mt. View, Calif. 7.5-minute topographic quadrangle

Residences @ Shoreline Gateway Project . 170621

Figure 1

Project Location

CITY OF MOUNTAIN VIEW

November 7, 2018
Attn: Andrew Galvan
The Ohlone Indian Tribe
P.O. Box 3152
Fremont, CA 94539
Phone: (510) 882-0527
chochenyo@AOL.com

Dear Mr. Galvan:

The City of Mountain View has received an application for development of the Residences @ Shoreline Gateway Project (proposed project), located at 1001 N. Shoreline Boulevard in Mountain View. The proposed project is subject to the California Environmental Quality Act (CEQA), with the City of Mountain View acting as lead CEQA agency. In accordance with Senate Bill 18, and consistent with Assembly Bill 52, as discussed below, the City of Mountain View would like to invite Native American tribes and individuals to participate in the local planning process.

The proposed project would include removing existing surface parking, landscaping, and private recreation areas, and constructing three new buildings with recreation facilities and common amenity space in these areas. The proposed project would include a new, seven- to eight-story residential structure with approximately 3,000 square feet of ground floor retail, two levels of podium parking, and 203 apartment units; and a new, seven-story residential structure with two levels of podium parking and 100 condominium units, to the north and east of an existing office building on the project site. The existing office building would remain at the site. The proposed project would also include a six-story parking structure to accommodate parking for the existing office building. The proposed project would require text and map amendments to the City of Mountain View 2030 General Plan. Please see the attached map for the proposed project location (Attachment).

A records search of the California Historical Resources Information System indicates that no archaeological resources have been previously identified in or within 0.5 miles of the proposed project site.

The City of Mountain View would like to provide you with an opportunity to communicate concerns you might have regarding historical resources or tribal cultural resources important to your community that could be impacted by the proposed project. The City of Mountain View requests your participation in the identification and protection of historical resources and tribal cultural resources that could be impacted by the proposed project, with the understanding that you or other members of your community might possess specialized knowledge of the area.

Please consider this letter and preliminary project information as formal notification of a proposed project as required under CEQA, specifically Public Resources Code § 21080.3.1 and Chapter 532 Statutes of 2014

(i.e. Assembly Bill 52). Please respond in writing within 30 days, pursuant to PRC § 21080.3.1(d) if you wish to request consultation regarding possible significant effects that the proposed project may have on tribal cultural resources. Please provide a designated lead contact person if you have not already provided such information.

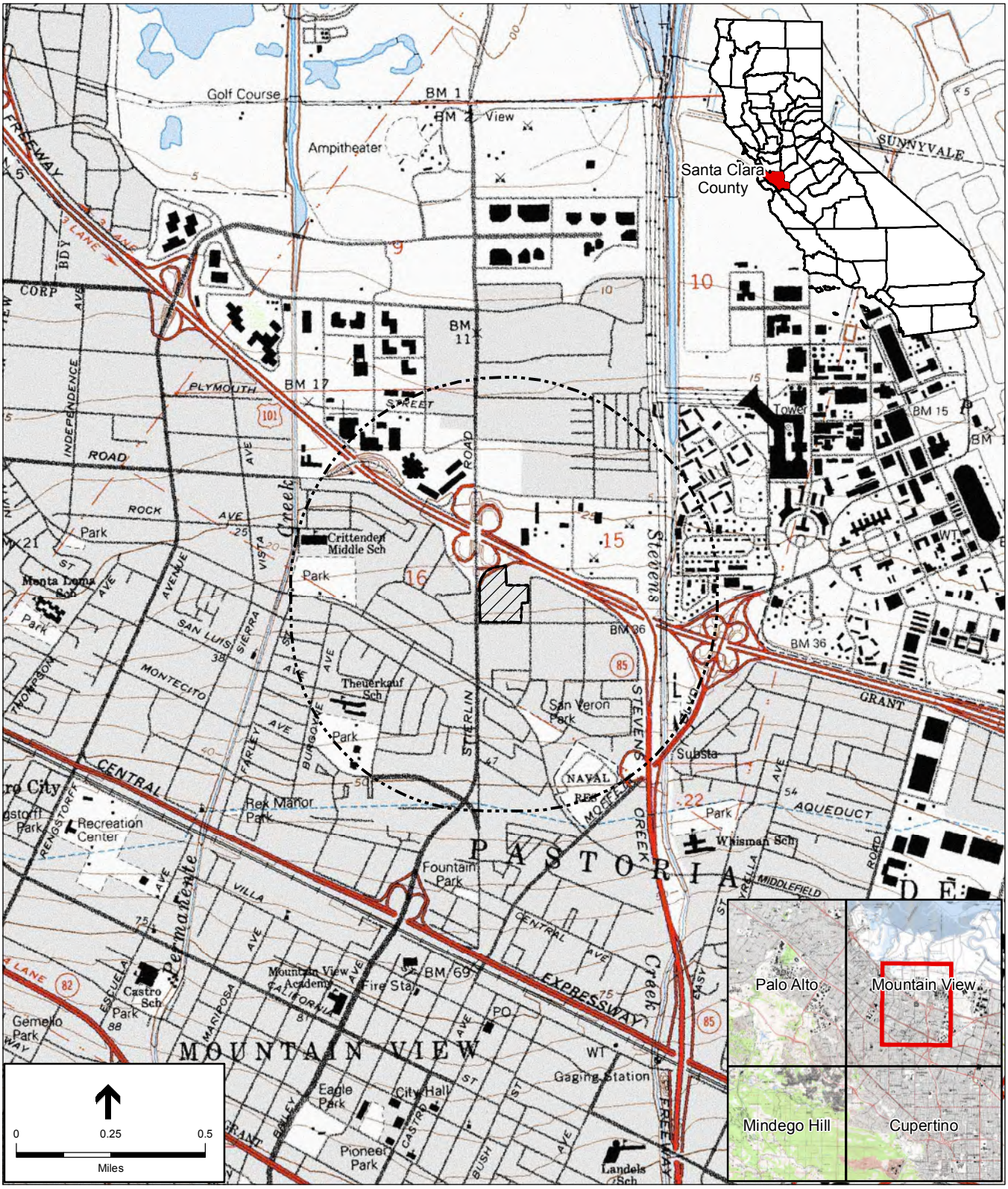
If you or any of your tribal members have any questions or concerns regarding the proposed project please contact me:

Clarissa Burke, Associate Planner
City of Mountain View
Community Development Department
500 Castro Street, P.O. Box 7540
Mountain View, CA 94039-7540
(650) 903-6306
Clarissa.Burke@mountainview.gov

Sincerely,

Clarissa Burke

Attachment: Figure 1, Project Location



SOURCE: USGS Mt. View, Calif. 7.5-minute topographic quadrangle

Residences @ Shoreline Gateway Project . 170621

Figure 1

Project Location

CITY OF MOUNTAIN VIEW

November 7, 2018
Attn: Katherine Erolinda Perez, Chairperson
North Valley Yokuts Tribe
P.O. Box 717
Linden, CA 95236
Phone: (209) 887-3415
canutes@verizon.net

Dear Ms. Perez:

The City of Mountain View has received an application for development of the Residences @ Shoreline Gateway Project (proposed project), located at 1001 N. Shoreline Boulevard in Mountain View. The proposed project is subject to the California Environmental Quality Act (CEQA), with the City of Mountain View acting as lead CEQA agency. In accordance with Senate Bill 18, and consistent with Assembly Bill 52, as discussed below, the City of Mountain View would like to invite Native American tribes and individuals to participate in the local planning process.

The proposed project would include removing existing surface parking, landscaping, and private recreation areas, and constructing three new buildings with recreation facilities and common amenity space in these areas. The proposed project would include a new, seven- to eight-story residential structure with approximately 3,000 square feet of ground floor retail, two levels of podium parking, and 203 apartment units; and a new, seven-story residential structure with two levels of podium parking and 100 condominium units, to the north and east of an existing office building on the project site. The existing office building would remain at the site. The proposed project would also include a six-story parking structure to accommodate parking for the existing office building. The proposed project would require text and map amendments to the City of Mountain View 2030 General Plan. Please see the attached map for the proposed project location (Attachment).

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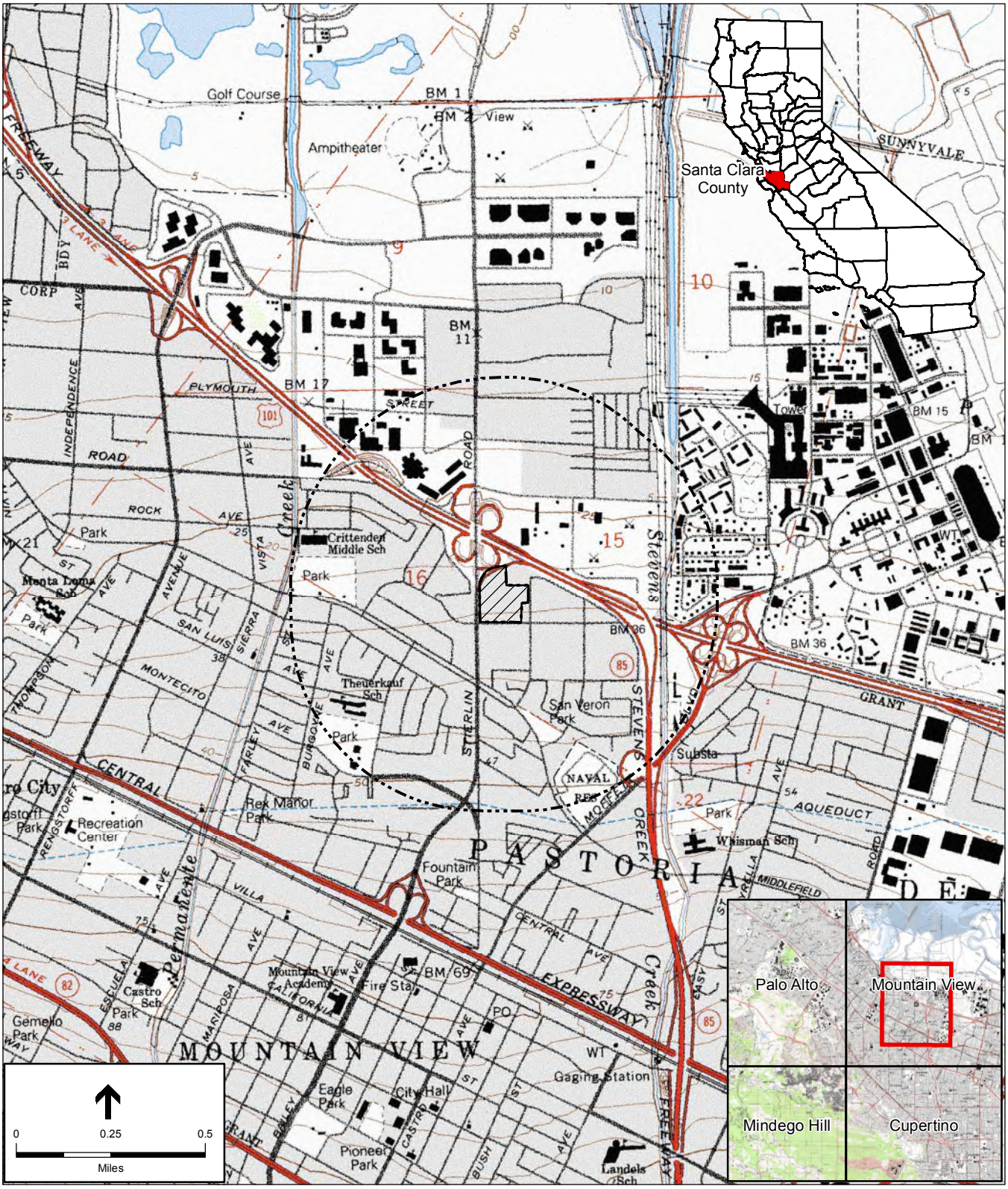
If you or any of your tribal members have any questions or concerns regarding the proposed project please contact me:

Clarissa Burke, Associate Planner
City of Mountain View
Community Development Department
500 Castro Street, P.O. Box 7540
Mountain View, CA 94039-7540
(650) 903-6306
Clarissa.Burke@mountainview.gov

Sincerely,

Clarissa Burke

Attachment: Figure 1, Project Location



SOURCE: USGS Mt. View, Calif. 7.5-minute topographic quadrangle

Residences @ Shoreline Gateway Project . 170621

Figure 1

Project Location

CITY OF MOUNTAIN VIEW

November 7, 2018
Attn: Anne Marie Sayers, Chairperson
Indian Canyon Mutsun Band of Costonoan
P.O. Box 28
Hollister, CA 95024
Phone: (831) 637-4238
ams@indiancanyon.org

Dear Ms. Sayers:

The City of Mountain View has received an application for development of the Residences @ Shoreline Gateway Project (proposed project), located at 1001 N. Shoreline Boulevard in Mountain View. The proposed project is subject to the California Environmental Quality Act (CEQA), with the City of Mountain View acting as lead CEQA agency. In accordance with Senate Bill 18, and consistent with Assembly Bill 52, as discussed below, the City of Mountain View would like to invite Native American tribes and individuals to participate in the local planning process.

The proposed project would include removing existing surface parking, landscaping, and private recreation areas, and constructing three new buildings with recreation facilities and common amenity space in these areas. The proposed project would include a new, seven- to eight-story residential structure with approximately 3,000 square feet of ground floor retail, two levels of podium parking, and 203 apartment units; and a new, seven-story residential structure with two levels of podium parking and 100 condominium units, to the north and east of an existing office building on the project site. The existing office building would remain at the site. The proposed project would also include a six-story parking structure to accommodate parking for the existing office building. The proposed project would require text and map amendments to the City of Mountain View 2030 General Plan. Please see the attached map for the proposed project location (Attachment).

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Community Development Department
500 Castro Street, P.O. Box 7540
Mountain View, CA 94039-7540
(650) 903-6306
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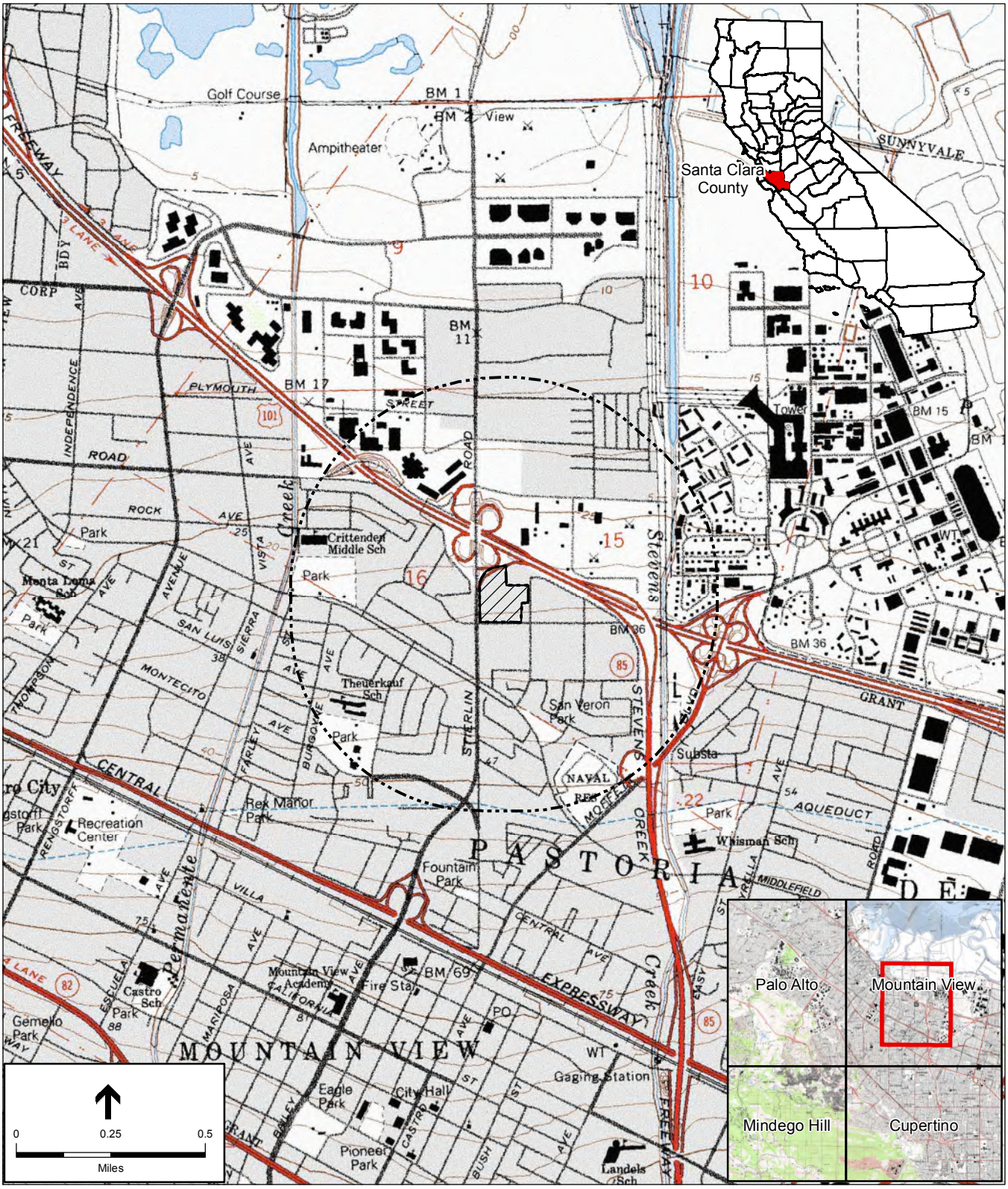

SOURCE: USGS Mt. View, Calif. 7.5-minute topographic quadrangle

Residences @ Shoreline Gateway Project . 170621

Figure 1

Project Location

CITY OF MOUNTAIN VIEW

November 7, 2018
Attn: Irenne Zwierlein, Chairperson
Amah Mutsun Tribal Band of Mission San Juan Bautista
789 Canada Road
Woodside, CA 94062
Phone: (650) 851-7747
amahmutsuntribal@gmail.com

Dear Ms. Zwierlein:

The City of Mountain View has received an application for development of the Residences @ Shoreline Gateway Project (proposed project), located at 1001 N. Shoreline Boulevard in Mountain View. The proposed project is subject to the California Environmental Quality Act (CEQA), with the City of Mountain View acting as lead CEQA agency. In accordance with Senate Bill 18, and consistent with Assembly Bill 52, as discussed below, the City of Mountain View would like to invite Native American tribes and individuals to participate in the local planning process.

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Mountain View, CA 94039-7540
(650) 903-6306
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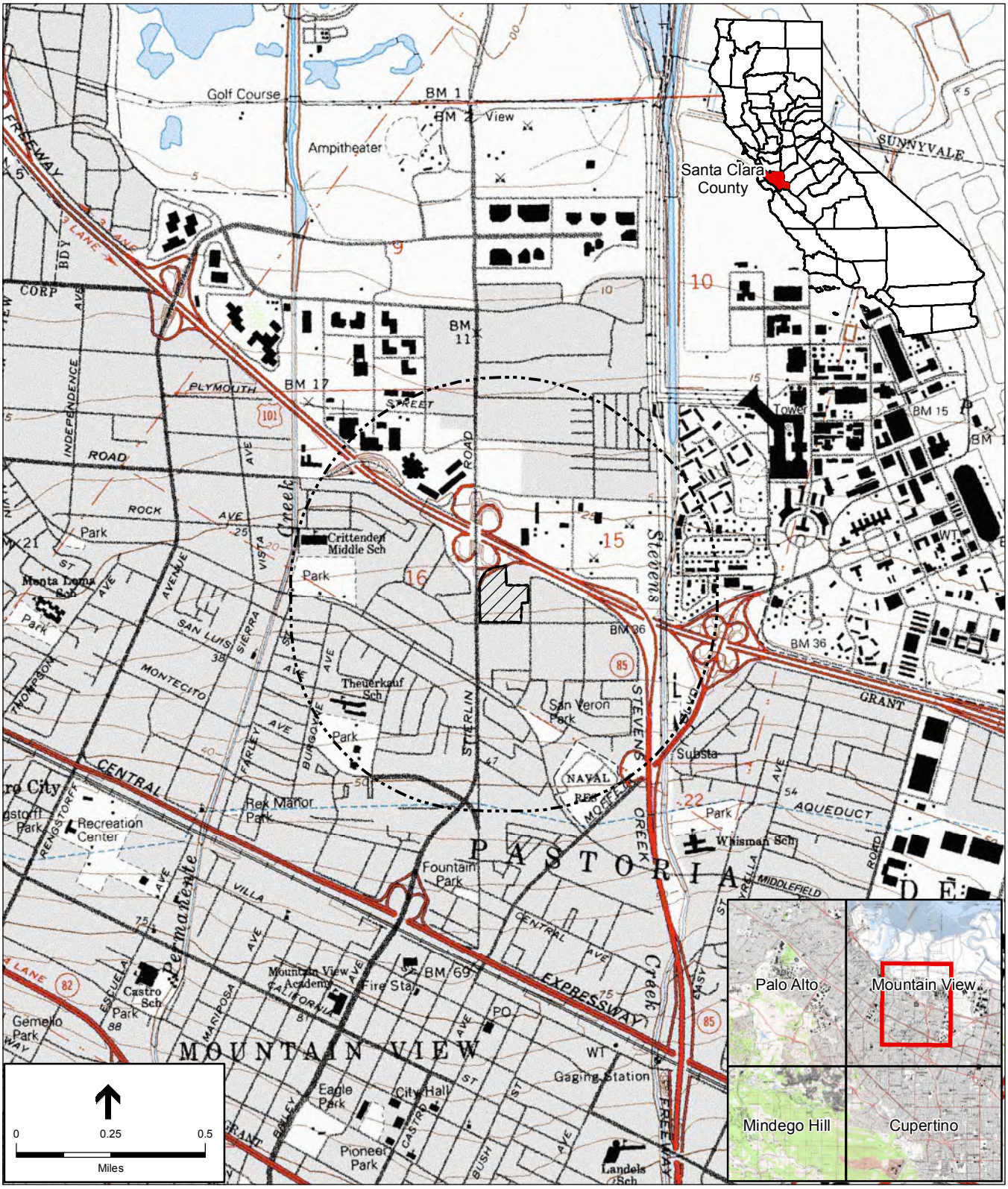
Sincerely,

Clarissa Burke

Attachment: Figure 1, Project Location



SOURCE: USGS Mt. View, Calif. 7.5-minute topographic quadrangle

Residences @ Shoreline Gateway Project . 170621

Figure 1

Project Location

Attachment D
Records Search Results

SONOMA
STATE UNIVERSITY

Invoice No.	0000025407
Invoice Date	01/30/2019
Account No.	1001305
Payment Terms	Net 30
Due Date	**03/01/2019**
Total Amount Due	**$143.30**

Bill To ENVIRONMENTAL SCIENCE ASSOCIATES-PET
1425 N MCDOWELL BLVD STE 200
PETALUMA CA 94954

Questions regarding this invoice can be directed to Billing Department at 707/664-3151

Line No.	Description	Identifier	Amount
	Note: *Northwest Information Center*		
1	*IN HOUSE* *Records search* *File # 18-1361* *Project Name: D170621: Residences at Shoreline Gateway Project*		143.30

---------- Please return this portion of invoice with payment ----------

Total Amount Due: $143.30
Please include the following on the check:
Account No. 1001305
Invoice No. 0000025407

Make Check Payable to:
Sonoma State University
Attn: Cashiers
1801 East Cotati Avenue
Rohnert Park, CA 94928-3609

CALIFORNIA HISTORICAL RESOURCES INFORMATION SYSTEM



ALAMEDA, COLUSA, CONTRA COSTA, DEL NORTE, HUMBOLDT, LAKE, MARIN, MENDOCINO, MONTEREY, NAPA, SAN BENITO, SAN FRANCISCO, SAN MATEO, SANTA CLATA, SANTA CRUZ, SOLANO, SONOMA, YOLO

Northwest Information Center
Sonoma State University
150 Professional Center Drive, Suite E
Rohnert Park, California 94928-3609
Tel: 707.588.8455
nwic@sonoma.edu
http://www.sonoma.edu/nwic

NWIC Billing Worksheet

IC File Number: 18-1361

Client Name: Robin Hoffman Phone: (707) 494-3349

Affiliation: Environmental Science Associates Email: rhoffman@esassoc.com

Proj Name/Number: D170621: Residences at Shoreline Gateway Project

Date Request Rec'd: 1/18/2019 Date of Response: 1/18/2019

Check In: 2:21:00 PM Check Out: 3:07:00 PM Check In: Check Out:

In-person Time:	Hour(s):	0.77	$	100.00
Staff Time:	Hour(s):		$	0.00
Shape Files:	Number:		$	0.00
Custom Map Features:	Number:		$	0.00
Digital Database Record:	Number of Row(s):		$	0.00
Quads:	Number:		$	0.00
Address-mapped Flat Fee:			$	0.00
Hard Copy (Xerox/Computer) Pages:	Page(s):	9	$	1.35
Labor Charge:	Hour(s):	1	$	40.00
PDF Pages:	Page(s):	13	$	1.95
PDF Flat Fee:			$	0.00
Other: CHRIS Data Request			$	0.00
		Subtotal	$	**143.30**

Multi-Day Start: Multi-Day End: $ 0.00

Rapid response surcharge of 50% of total cost: $ 0.00

Total: $ **143.30**

Information Center Staff: Blake Brown

Sonoma State University Customer ID: 1001305

Sonoma State University Invoice No.: 00000 25407

CHRIS Access and Use Agreement No.: 073

This is not an invoice. Sonoma State University will send separate invoice.

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
S-004175	Voided - E-34 SCL	2000	Rob Edwards	Archaeological Evaluation of the Kaiser Truck Parking Facility, Mountain View, California		
S-004492	Voided - E-365 SCL	1978	Miley P. Holman	An archaeological field reconnaissance of both banks of Stevens Creek between the bay and Homestead Boulevard in Mountain View, California (letter report)	Holman & Associates	
S-004766	Voided - E-655 SCL	1977	Joseph C. Winter	Archaeological Resources of the Proposed Mountain View Water Main, Project #76-54, EDA #07-51-01907	Archaeological Impact Reports	
S-008345	Caltrans - 04393-389131; Caltrans - 04393-396171; Voided - E-828 SCL	1980	Mara Melandry	Archaeological Survey Report, 04-SCL-101, Portions of P.M. 38.3/52.5, Improvements to Route 101 Between Route 17 in San Jose and Embarcadero Road in Palo Alto, Santa Clara County, 04393-389131, 04393-396171	California Department of Transportation, District 04	43-000441
S-008371	Voided - E-878b SCL; Voided - S-8370	1981		Cultural Resources Evaluations for the Proposed Navy Housing Locations at Moffett Field, Santa Clara County, California	David Chavez & Associates	43-000041, 43-000044
S-008371a		1980	David Chavez	Cultural Resources Evaluations for the Proposed Navy Housing Locations at Moffett Field, Santa Clara County, California (letter report)	David Chavez Consulting Archaeologist	
S-009440	Caltrans - 04282-437060; Voided - S-10525; Voided - S-11047; Voided - S-15164	1987	Marcia K. Kelly	Archaeological Survey Report for the Proposed Improvements to the Routes 85, 101, 237 Triangle and Route 85 from Stevens Creek Blvd. to Route 101 in Santa Clara County, 4-SCL-85 PM 17.7/23.9, 4-SCL-101 PM 44.9/49.5, 4-SCL-237 PM 0.4/3.8, EA 04282-437060	California Department of Transportation, District 4	43-000032, 43-000040
S-009440a		1988	Mark Hylkema	Addendum #1, Archaeological Survet Report for the Proposed Improvements to the Route 85, 101, 237 Triangle, Sanat Clara County, 4-SCL-85 17.7/23.9, 4-SCL-237 0.4/3.8	California Department of Transportation	
S-009440b		1987	Marciaa K. Kelly	Preliminary Report for Phase 1 Extended Archaeological Survey at Route 101/237 Interchange and Request for Determination of Eligibility for Archaeological Site CA-Scl-12 for the Proposed Improvements to the Routes 85, 101, 237 Triangle and Route 85 from Stevens Creek Blvd. to Route 101 in Sanat Clara County 4-SCL-85 17.1/23.9, 4-SCL-101 4.9/49.5, 4-SCL-237 0.4/3.8	California Department of Transportation	

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
S-018286	Caltrans - 04-234-43820K	1996	David Chavez	Historic Property Survey Report, Improvement of a Portion of Route 85, 04-SCL-85 P.M. R35.6/R38.3 04-234-43820K	David Chavez & Associates	
S-018367	Caltrans - EA 132451	1995	Mark Hylkema	Historic Property Survey Report and Finding of No Effect for the Proposed Ramp Metering and HOV Ramp Project, 4-SCL-101 PM 40.0/52.5, EA 132451	Caltrans District 4	43-000032
S-018367a		1995	Mark Hylkema	Archaeological Survey Report Addendum #1, for the Proposed Ramp Metering and HOV Ramp Project, 4-SCL-101 PM 40.0/52.5, EA 132451	Caltrans	
S-023193		2000	Michael Newland and Sunshine Psota	SF-902-01 PG&E Lattice Tower, 750 Moffett Boulevard, Mountain View, California, VERTEX Project No. 2283	Anthropological Studies Center, Sonoma State University	
S-025529	Caltrans - EA 43880K; Voided - S-23058; Voided - S-23100; Voided - S-23389; Voided - S-24932	2001	Gail F. Miller	Historic Property Survey Report for the U.S. 101/S.R. 85 Interchange Improvement Project, 04-SCL-101/ K.P. 75.26 to 79.59 (P.M. 47.4 to 48.7), Mountain View, Santa Clara County, California (EA 43880K)	Myra L. Frank & Associates, Inc.	43-001473, 43-001514, 43-001515, 43-001516, 43-001517, 43-001518, 43-001519, 43-001520, 43-001579, 43-001580, 43-001581, 43-001582, 43-001583, 43-001584, 43-001585, 43-003123, 43-003124
S-025529a		2001		Addendum No. 2: Archaeological Survey Report (Positive), Route 85/101 Interchange Project, City of Mountain View, Santa Clara County, California, 04-SCL-101/KP 75.26 to 79.59	Basin Research Associates, Inc.	
S-025529b		2000		Extended Phase I Test Program: Moffet Boulevard/Route 101 Interchange, Route 85/101 Interchange Project, City of Mountain View, Santa Clara County, California, 04-SCL-101/KP 75.26 to 79.59	Basin Research Associates, Inc.	
S-025529c		2000	Gail F. Miller	Historic Architectural Survey Report for the S.R. 85/U.S. 101 Interchange Improvement Project, 04-SCL-101 / K.P. 75.26 to 79.59 (P.M. 47.4 to 48.7), Mountain View, Santa Clara County, California (EA 43880K)	Myra L. Frank & Associates, Inc.	
S-025529d		1999	Colin I. Busby	Negative Archaeological Survey Report, U.S. 101/S.R. 85 Interchange Project, KP 75.26-79.59	Basin Research Associates, Inc.	

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
S-025529e		1998	Colin I. Busby	Preliminary Constraints Analysis - Route 85/101 Interchange Project, City of Mountain View and Moffett Field, Santa Clara County (letter report)	Basin Research Associates, Inc.	
S-026157		2002	Robert Cartier	Cultural Resource Evaluation of the Property at 1275 L'Avenida Road (VTA-North Division #SF56XC568-C) in the City of Mountain View	Archaeological Resource Management	
S-027756		2000	Lorna Billat	Nextel Communications Wireless Telecommunications Service Facility - Santa Clara County, Nextel Site No. CA-0307D, Moffett Field (letter report)	Earth Touch, Inc.	
S-028641		2004	Carolyn Losee	Cultural Resources Analysis for Cingular Wireless Site SF-954-02 "Mountain View Buddhist Temple" (letter report)	Archaeological Resources Technology	
S-030513		2005	Barbra Siskin	Cultural Resources Investigations for Stevens Creek Trail Overcrossing of Moffett Boulevard, Mountain View, Santa Clara County	Jones & Stokes	
S-032499	Agency Nbr - CoE Contract No. W91278-06-D-001; OHP PRN - USA061103A	2006		Cultural Resources Survey of Approximately 76.6 Acres for BRAC Activities at Moffett Field USAR Complex, Santa Clara County, California	Tetra Tech, Inc.	43-001824
S-032499a		2007	Milford Wayne Donaldson	USA061103A; Base Realignment and Closure Activities at Moffett Field USAR Complex, Santa Clara County, California	Office of Historic Preservation	
S-033061	Submitter - SWCA Cultural Resources Report Database No. 06-507; Submitter - SWCA Report No. 10715-	2006	Nancy Sikes, Cindy Arrington, Bryon Bass, Chris Corey, Kevin Hunt, Steve O'Neil, Catherine Pruett, Tony Sawyer, Michael Tuma, Leslie Wagner, and Alex Wesson	Cultural Resources Final Report of Monitoring and Findings for the Qwest Network Construction Project, State of California	SWCA Environmental Consultants	01-000027, 01-000040, 01-000087, 01-000088, 01-000089, 01-000090, 07-000138, 27-000802, 27-001191, 27-001207, 28-000467, 43-000106, 43-000141, 43-000449, 43-000573, 43-000575, 43-000754, 43-000928, 43-001071, 48-000208, 48-000211, 48-000214, 48-000441, 48-000549, 49-001583, 57-000194, 57-000198, 57-000297, 57-000301, 57-000307
S-033061a		2006		Cultural Resources Final Report of Monitoring and Findings for the Qwest Network Construction Project, State of California	SWCA Environmental Consultants	

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
S-033061b		2007	Nancy E. Sikes	Final Report of Monitoring and Findings for the Qwest Network Construction Project (letter report)	SWCA Environmental Consultants	
S-033596	OHP PRN - USA070613A; Submitter - Contract No. W912C8-05-P-0052	2007	Mary L. Maniery and Cindy L. Baker	Cultural Resource Inventory and Evaluation of United States Army Reserve 63D Regional Readiness Command Facilities; Contract No. W912C8-05-P-0052	PAR Environmental Services, Inc.	01-001830, 01-001833, 01-010830, 01-010831, 07-002752, 07-002753, 43-000728, 43-001836, 43-001837, 48-000752
S-033596a		2007		Cultural Resources Inventory and Evaluation of the United States Army Reserve Heroic War Dead USAR Center/Area Maintenance Support Activity 85 (G), Oakland, California; P-01-[010831], 63D Regional Readiness Command Facility CA036, Contract No. W912C8-05-P	U.S. Army Reserve; PAR Environmental Services, Inc.	
S-033596b		2007		Cultural Resources Inventory and Evaluation of the United States Army Reserve Oakland USAR Center #2, Oakland, California; P-01-01830, 63D Regional Readiness Command Facility CA-125, Contract No. W912C8-05-P-0052	U.S. Army Reserve; PAR Environmental Services, Inc.	
S-033596c		2007		Cultural Resources Inventory and Evaluation of the United States Army Reserve PFC Bacciglieri Armed Forces Reserve Center, Concord, California; P-07-002752, 63 D Regional Readiness Command Facility CA007, Contract No. W912C8-P-0052	U.S. Army Reserve; PAR Environmental Services, Inc.	
S-033596d		2007		Cultural Resources Inventory and Evaluation of the United States Army Reserve Col. Hunter Hall USAR Center, San Pablo, California; P-07-002753, 63D Regional Readiness Command Facility CA 070, Contract No. W912C8-05-P-0052	U.S. Army Reserve; PAR Environmental Services, Inc.	
S-033596e		2007		Cultural Resources Inventory and Evaluation of the United States Army Reserve Fort Ord USAR Center, Marina, California; 63D Regional Readiness Command Facility CA012, Contract No. W912C8-05-P-0052	U.S. Army Reserve; PAR Environmental Services, Inc.	

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
S-033596f		2007		Cultural Resources Inventory and Evaluation of the United States Army Reserve Moss Landing Local Training Area, Moss Landing, California; 63D Regional Readiness Command Facility CA189, Contract No. W912C8-05-P-0052	U.S. Army Reserve; PAR Environmental Services, Inc.	
S-033596g		2007		Cultural Resources Inventory and Evaluation of the United States Army Reserve Jones Hall USAR Center, Mountain View, California; P-43-001836, 63D Regional Readiness Command Facility CA031, Contract No. W912C8-05-P-0052	U.S. Army Reserve; PAR Environmental Services, Inc.	
S-033596h		2007		Cultural Resources Inventory and Evaluation of the United States Army Reserve Richey Hall USAR Center, San Jose, California; P-43-000728, 63D Regional Readiness Command Facility CA069, Contract No. W912C8-05-P-0052	U.S. Army Reserve; PAR Environmental Services, Inc.	
S-033596i		2007		Cultural Resources Inventory and Evaluation of the United States Army Reserve Moffett USAR Center, Mountain View, California; P-43-001837, 63D Regional Readiness Command Facility CA120, Contract No. W912C8-05-P-0052	U.S. Army Reserve; PAR Environmental Services, Inc.	
S-033596j		2007		Cultural Resources Inventory and Evaluation of the United States Army Reserve PFC Young USAR Center, Vallejo, California; P-[48-000752], 63D Regional Readiness Command Facility CA-090, Contract No. W912C8-05-P-0052	U.S. Army Reserve; PAR Environmental Services, Inc.	
S-033596k		2007	Milford Wayne Donaldson and James O. Anderson	USA070613A; Inventory and Evaluation of Historic Resources at 63D Regional Readiness Command, US Army Reserve Center in California	Office of Historic Preservation; US Army	
S-033697	Voided - S-27908	2007	Dean Martorana	Palo Alto Regional Water Quality Control Plant Reuse Pipeline, Santa Clara County, California: Cultural Resources Inventory	Environmental Science Associates	
S-033697a		2003	Dean Martorana	Palo Alto Regional Water Quality Control Plant Reuse Pipeline: Cultural Resources Inventory Report	Environmental Science Associates	

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
S-037075	Caltrans - EA 04-4A330; Voided - S-35123; Voided - S-37074	2008	Adrian Whitaker	Historic Resources Compliance Report for the U.S. 101 Auxiliary Lanes (Route 85 to Embarcadero Road) Project, Santa Clara County, California 04-SCL-101 PM 52.17-48.97 EA 04-4A330	Far Western Anthropological Research Group, Inc.	43-000441, 43-000578
S-037075a		2008	Brian F. Byrd, Michael Darcangelo, Jeffrey Rosenthal, and Jack Meyer	Archaeological Survey Report for the US 101 Auxiliary Lanes (Route 85 to Embarcadero Road) Project, Santa Clara County, California, 04-SCL-101 PM 48.97/52.17 EA 04-4A3300	Far Western Research Group, Inc.	
S-037075b		2008	Adrian Whitaker	Extended Phase I Testing for the U.S. 101 Auxiliary Lanes (Route 85 to Embarcadero Road) Project, Santa Clara County, California 04-SCL-101 PM 52.17-48.97 EA 04-4A330O	Far Western Anthropological Research Group, Inc.	
S-038808	Submitter - EA 15420; Submitter - EFIS 04000020481	2012	Naomi Scher	Extended Phase I Geoarchaeological Study for the State Route 85 Proposed Freeway Performance Initiative Project, Santa Clara County, California, EA 15420, EFIS 04000020481, 04-SR-85 PM R 18.45/23.87	Anthropological Studies Center, Sonoma State University	
S-039663		2012	Jessica Tudor and Kathleen A. Crawford	Cultural Resources Records Search and Site Visit Results for T-Mobile West LLC Candidate SFO4556 (La Avenida Street), 1280 La Avenida Street, Mountain View, Santa Clara County, California (letter report)	Michael Brandman Associates	
S-043191	Caltrans - EA 4A7900; Caltrans - EFIS 0400001163	2013	Kathleen Kubal and Jay Rehor	Historic Property Survey Report, State Route 85 Express Lanes Project, Santa Clara County, California, EA 4A7900, EFIS 0400001163, US 101 PM 23.1-28.6, SR 85 PM 0.0-24.1, US 101 PM 47.9-52.0	URS Corporation	43-000072, 43-000149, 43-000189, 43-000247, 43-000248, 43-000249, 43-000250, 43-000251, 43-000252, 43-000303, 43-000339, 43-000345, 43-000415, 43-000416, 43-000441, 43-000568, 43-000983, 43-001095, 43-001433, 43-001473
S-043191a		2013	Kathleen Kubal	Archaeological Survey Report, State Route 85 Express Lanes Project, Santa Clara County, California: EA 4A7900; EFIS 0400001163, US 101 PM 23.1-28.6, SR 85 PM 0.0-24.1, US 101 PM 47.9-52.0	URS Corporation	
S-043191b		2013	Jay Rehor and Kathleen Kubal	Extended Phase I Study, State Route 85 Express Lanes Project, Santa Clara County, California: Project No. 0400001163; EA 4A7900, US 101 PM 23.1-28.6, SR 85 PM 0.0-24.1, US 101 PM 47.9-52.0	URS Corporation	

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
S-043191c		2013	Kathleen Kubal	Environmentally Sensitive Area Action Plan, State Route 85 Express Lanes Project, Santa Clara County, California: EA 4A7900; EFIS 0400001163, US 101 PM 23.1-28.6, SR 85 PM 0.0-24.1, US 101 PM 47.9-52.0	URS Corporation	
S-044017	OHP PRN - USA 100217 A	2007		Cultural Resources Inventory and Evaluation of the United States Army Reserve, Jones Hall USAR Center, Mountain View, California, P-43-001836, 63D Regional Readiness Command Facility CA031, Contract No. W912C8-05-0052	Environmental Division, PAR Environmental Services, Inc.	43-001836
S-044025		2012		Cultural Resources Study of the Mountain View ODAS Project, Nodes P3N1A, P3N5A, P3N9A, P3N11A, P3N23A, P3N24A, P3N28A, P3N30A, P3N33B, P3N37A, P3N37A, P3N38A, P3N49A, Mountain View and Los Altos, Santa Clara County, California	Historic Resource Associates	
S-045670	Caltrans - EA 2G7100; Caltrans - Project No. 0412000459; OHP PRN - FHWA 2014 0527 001	2014	Kathleen Kubal	Historic Property Survey Report, US 101 Express Lanes Project, Santa Clara County, California, Project No. 0412000459/EA 2G7100, 04-SCL-101 PM 16.00/52.55, 04-SCL-85 PM 23.0/24.1	URS Corporation	43-000032, 43-000040, 43-000072, 43-000175, 43-000181, 43-000183, 43-000189, 43-000247, 43-000250, 43-000251, 43-000252, 43-000339, 43-000345, 43-000415, 43-000416, 43-000441, 43-000560, 43-000568, 43-001001, 43-001095, 43-001163, 43-001473
S-045670a		2014	Kathleen Kubal	Supplemental Historic Property Survey Report, US 101 Express Lanes Project, Project No. 0412000459/EA 2G7100, 04-SCL-101 PM 16.00/52.55 - 04-SCL-85 PM 23.0/24.1, Santa Clara County, California	URS Corporation	
S-045670b		2014	Nancy E. Sikes, Molly Valasik, Amy Glover, Jay Rehor, and Kathleen Kubal	Archaeological Survey Report, US 101 Express Lanes Project, Project No. 0412000459/EA 2G7100, US 101 PM 16.00/52.55 - SR 85 PM 23.0/R24.1, Santa Clara County, California	Cogstone Resource Management, Inc.; URS Corporation	
S-045670c		2014	Jay Rehor	Extended Phase I Study, US 101 Express Lanes Project, Project No. 0412000459/EA 2G7100, US 101 PM 16.00/52.55 - SR 85 PM 23.0/R24.1, Santa Clara County, California	URS Corporation	

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
S-045670d		2014	Karin G. Beck	Historical Resources Evaluation Report, US 101 Express Lanes Project, Project No. 0412000459/EA 2G7100, US 101 PM 16.00-52.55, SR 85 PM 23.0-24.1, Santa Clara County, California	URS Corporation	
S-045670e		2014	Carol Roland-Nawi	FHWA 2014 0527 001Determinations of Eligibility for the Proposed US 101 Express Lanes Project, Santa Clara County, California	California Office of Historic Preservation	
S-045758		2014	Heidi Koenig and Brad Brewster	Cultural Resources Study for the 1001 N. Shoreline Project (letter report)	Environmental Science Associates	43-003148, 43-003149, 43-003150, 43-003151
S-046675	Agency Nbr - Contract No: W91278-14-D-0064; OHP PRN - USA_2015_0928_001 ; OHP PRN - USA20150217002	2015	Sarah C. Heffner and Josh Allen	Phase I / Extended Phase 1 Archaeological Survey of Approximately 30 Acres at Mountain View, 63D Regional Support Command, Headquarters, Santa Clara County, California, Contract No: W91278-14-D-0064	PAR Environmental Services, Inc.	
S-046675a		2006		Cultural Resources Survey of Approximately 76.6 Acres for BRAC 2005 Activities at Moffett Field USAR Complex, Santa Clara County, CA	Tetra Tech, inc.	
S-046675b		2015	Julianne Polanco	USA_2015_0928_001; Christmas Treet Planting, 230 R. T. Jones Road, Mountain View, CA 94043 (your letter of September 24, 2015)	Office of Historic Preservation	
S-046675c		2015	Carol Roland-Nawi	USA_2015_0217_002; 63rd RSC Google Road Project Mountain View, CA (your letter of February 11, 2015)	Office of Historic Preservation	

Resource List

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
P-43-001514		Resource Name - House at 955 San Rafael Avenue; Other - Resource #45; OHP PRN - DOE 43-01-0022-0000; OHP PRN - FHWAOI0404D	Building	Historic	HP02	1999 (Gail F. Miller, Myra L. Frank & Associates, Inc.)	S-025529
P-43-001515		Resource Name - House at 943 San Rafael Avenue; OHP PRN - DOE 43-01-0021-0000; Other - Resource #46	Building	Historic	HP02	1999 (Gail F. Miller, Myra L. Frank & Associates, Inc.)	S-025529
P-43-001516		Resource Name - House at 990 Terra Bella Avenue; OHP PRN - DOE 43-01-0033-0000; Other - Resource #50	Building	Historic	HP02	1999 (Gail F. Miller, Myra L. Frank & Associates, Inc.)	S-025529
P-43-001517		Resource Name - House at 1020 Terra Bella Avenue; OHP PRN - DOE 43-01-0034-0000; Other - Resource #51	Building	Historic	HP02	1999 (Gail F. Miller, Myra L. Frank & Associates, Inc.)	S-025529
P-43-001518		Resource Name - House at 1718 Spring Street; OHP PRN - DOE 43-01-0023-0000; Other - Resource #81	Building	Historic	HP02	1999 (Gail F. Miller, Myra L. Frank & Associates, Inc.)	S-025529
P-43-001519		Resource Name - House at 1726 Spring Street; OHP PRN - DOE 43-01-0027-0000; Other - Resource #82	Building	Historic	HP02	1999 (Gail F. Miller, Myra L. Frank & Associates, Inc.)	S-025529
P-43-001520		Resource Name - House at 1742 Spring Street; OHP PRN - DOE 43-01-0031-0000; Other - Resource #84	Building	Historic	HP02	1999 (Gail F. Miller, Myra L. Frank & Associates, Inc.)	S-025529
P-43-001579		Resource Name - House at 1734 Spring Street; OHP PRN - DOE 43-01-0024-0000; Other - Resource #83	Building	Historic	HP02	1999 (Gail F. Miller, Myra L. Frank & Associates, Inc.)	S-025529

Resource List

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
P-43-001580		Resource Name - House at 1758 Spring Street; OHP PRN - DOE 43-01-0025-0000; Other - Resource #86	Building	Historic	HP02	1999 (Gail F. Miller, Myra L. Frank & Associates, Inc.)	S-025529
P-43-001582		Resource Name - House at 1750 Spring Street; OHP PRN - DOE 43-01-0028-0000; Other - Resource #85	Building	Historic	HP02	1999 (Gail F. Miller, Myra L. Frank & Associates, Inc.)	S-025529
P-43-001836		Resource Name - Jones Hall, USAR Center; Other - Mountain View USAR Center, Facility ID No. CA031	Building	Historic	HP34	2006 ([none], PAR Environmental Services, Inc.)	S-033596, S-044017
P-43-003123		OTIS Resource Number - 116100; OHP PRN - FHWA880331B; OHP PRN - DOE-43-88-0010-0000; OHP PRN - DOE-43-01-0020-0000; OHP PRN - FHWA010404D; Resource Name - Gabler Residence	Building	Historic	HP02	1987 (Aaron A. Gallup, Caltrans)	S-025529
P-43-003124		Resource Name - 950 San Leandro; OHP Property Number - 116093; OHP PRN - DOE-43-01-0019-0000; OHP PRN - FHWA010404D; OHP PRN - DOE-43-88-0006-0000; OHP PRN - FHWA8800331B	Building	Historic	HP02	1987 (Aaron A. Gallup, Caltrans)	S-025529
P-43-003148		Resource Name - 1015 N. Shoreline Boulevard; Other - 1015 Stierlin Road	Building	Historic	HP02	2014 (Brad Brewster,, Environmental Science Associates)	S-045758
P-43-003149		Resource Name - 1062 Linda Vista Avenue	Building	Historic	HP06	2014 (Brad Brewster, Environmental Science Associates)	S-045758
P-43-003150		Resource Name - 1150 Terra Bella Avenue	Building	Historic	HP02	2014 (Brad Brewster, Environmental Science Associates)	S-045758

Resource List

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
P-43-003151		Resource Name - 1160 Terra Bella Avenue	Building	Historic	HP06	2014 (Brad Brewster, Environmental Science Associates)	S-045758

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # P-43-003149
HRI #
Trinomial
NRHP Status Code

Other Listings
Review Code | Reviewer | Date

 *Resource Name or #: 1062 Linda Vista Avenue

P1. Other Identifier:

***P2. Location:** ☐ **Not for Publication** ■ **Unrestricted** ***a. County:** Santa Clara

and

***b. USGS 7.5' Quad:** Mountain View **Date:** 1997 **T** ; **R** ; **¼ of** **¼ of Sec** ; M.D. **B.M.**

c. Address: 1062 Linda Vista Avenue City: Mountain View Zip:

d. UTM: Zone: 10 ; mE/ mN (G.P.S.)

e. Other Locational Data: APN: 153-15-024 Elevation:

***P3a. Description:**

The property at 1062 Linda Vista Avenue in Mountain View is a two story, 13,000-square-foot commercial office and warehouse building with a rectangular plan, constructed of concrete with painted concrete plaster walls, and a flat roof, designed in the Modern style of architecture. The front of the building facing Linda Vista Avenue is a two-story office building, with a high-bay single-story warehouse connected to the back. The office structure has a series of vertical concrete 'fins' located between each set of windows, running the full height of the building, and projecting about three feet from the front facade. The front entrance is located at the northeast corner of the building, and is demarcated by a pebbled stone cladding above the front door. A remnant steel frame awning and faded signage is also located above the front door, which consists of a dark metal frame commercial unit with inset glass. Other fenestration consists of fixed and casement style windows with metal frames. Ground floor windows are covered by steel security bars. The rear of the building contains approximately 7 bays, each bay with a roll-up garage door. Paved parking areas are located to the east and north sides of the property. A near-twin office/warehouse is located further to the north.

***P3b. Resource Attributes:** HP6 – Commercial Building

***P4. Resources Present:** ■Building ☐Structure ☐Object ☐Site ☐District ☐Element of District ☐Other (Isolates, etc.)



P5b. Description of Photo: Looking northwest. 12/11/14

***P6. Date Constructed/Age and Sources:** ■Historic ☐Prehistoric ☐Both
1959 (F)

***P7. Owner and Address:**
Manford and Audrey Trees Living Trust
148 Exbourne Avenue
San Carlos, CA 94070

***P8. Recorded by:**
Brad Brewster, M.A.
Environmental Science Associates
550 Kearny Street, Suite 800
San Francisco, CA 94108

***P9. Date Recorded:** 12/16/14

***P10. Survey Type:**
Intensive

***P11. Report Citation:** ESA, *1001 N. Shoreline Development Initial Study/Mitigated Negative Declaration (IS/MND)*, December, 2014.

***Attachments:** ☐NONE ☐Location Map ☐Sketch Map ■Continuation Sheet ☐Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐ Other (List):

BUILDING, STRUCTURE, AND OBJECT RECORD

***NRHP Status Code** 6Z

***Resource Name or #** 1062 Linda Vista Avenue

B1. Historic Name: 1062 Linda Vista Avenue
B2. Common Name: same
B3. Original Use: Office/Warehouse
B4. Present Use: Vacant
***B5. Architectural Style:** Modern
***B6. Construction History:**

Constructed in 1959. No visible alterations.

***B7. Moved?** ■No ☐Yes ☐Unknown **Date:** **Original Location:**
***B8. Related Features:**

1066 Linda Vista Avenue is a near-twin building, constructed simultaneously, and sharing the same central parking lot

B9a. Architect: Danforth E. Apker, CE
b. Builder: Penn Construction Co.
***B10. Significance: Theme:** N/A
Area: N/A
Period of Significance: N/A
Property Type: N/A
Applicable Criteria: N/A

The property at 1062 Linda Vista Avenue was constructed in 1959 as a two-story commercial office and warehouse building as this area of Mountain View was transitioning from earlier agricultural uses to commercial office and high-tech industrial uses during the post-war period. The property and its near-twin at 1066 Linda Vista Avenue were developed for owner Walter S. Butler, designed by civil engineer Danforth Apker, and constructed by Penn Construction Co. Tenants included Mechrolab, Inc. (1964) and Data Technology Corporation (1967). The property was constructed during a period of rapid commercial and industrial expansion, not only in Mountain View and Santa Clara County, but also nationwide. The buildings appears to have been used most recently for the sales and storage of electronic parts, as indicated by the faded signage stating it was "An Electronics Supermarket." Although the property is associated with Mountain View's post-World War II commercial/industrial growth, as well as its current position as a high-tech center of Silicon Valley, it does not appear to be significantly associated with these events, nor did research reveal any significant associations with other important local events. Research also did not reveal any associations with important individuals who may have worked at the property. There is no indication that developer Walter Butler was considered a locally important individual. Finally, the property is a relatively common, rather than a representative, example of the Modern style of commercial architecture. Research did not indicated that the building's designer, civil engineer Danforth Apker, was considered a master engineer. For these reasons, 1062 Linda Vista Avenue does not appear to be eligible for listing in the local, state, or national registers of historical resources. This property would not meet the definition of a historical resource for CEQA purposes.

B11. Additional Resource Attributes: HP6 – Commercial Building

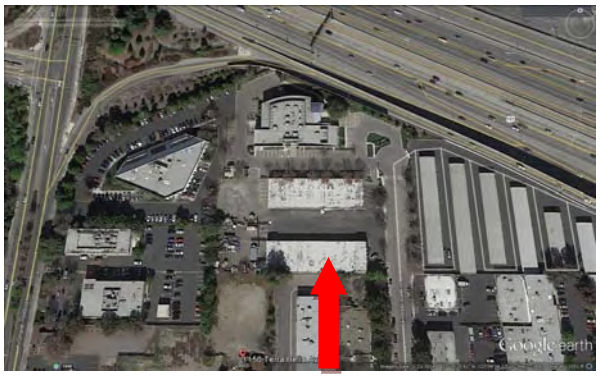
***B12. References:**

Santa Clara County Assessor's Records, accessed 12/12/14
www.historicaerials.com, accessed 12/12/14
Building Permits, City of Mountain View, 12/24/14

B13. Remarks:

***B14. Evaluator:** Brad Brewster, ESA

***Date of Evaluation:** 12/29/14



(This space reserved for official comments.)

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # P-43-003150
HRI #
Trinomial
NRHP Status Code

Other Listings
Review Code | Reviewer | Date

 *Resource Name or #: 1150 Terra Bella Avenue

P1. Other Identifier:

***P2. Location:** ☐ **Not for Publication** ■ **Unrestricted** ***a. County:** Santa Clara

and

***b. USGS 7.5' Quad:** Mountain View **Date:** 1997 **T** ; **R** ; **¼ of** **¼ of Sec** ; M.D. **B.M.**

c. Address: 1150 Terra Bella Avenue City: Mountain View Zip:

d. UTM: Zone: 10 ; mE/ mN (G.P.S.)

e. Other Locational Data: APN: 153-15-022 Elevation:

***P3a. Description:**

The property at 1150 Terra Bella Avenue in Mountain View is a single-story, 1,356-square-foot residence with a rectangular plan, a side gable roof clad in asphalt shingles, and stucco siding designed in the Ranch style of architecture. The base of the front façade is clad in brick, while the base of the sides are clad in horizontal ship-lap siding. The construction type is wood framing over a concrete foundation. Fenestration consists of wood frame, double hung windows with 2-over-2 panes, covered by steel mesh screens. The front door is covered by a metal security grill. The enclosed eaves have wood trim with aluminum gutters. The entry is accessed through a recessed front porch supported by wood posts. The front façade is dominated by a large, exterior brick chimney on a projecting gable end. Four outbuildings are located within the rear yard of the property, to the north of the residence. These buildings consists of gable-roofed sheds entirely clad in corrugated metal.

***P3b. Resource Attributes:** HP2 – Single Family Property

***P4. Resources Present:** ■Building ☐Structure ☐Object ☐Site ☐District ☐Element of District ☐Other (Isolates, etc.)



P5b. Description of Photo: Looking north. 12/11/2014

***P6. Date Constructed/Age and Sources:** ■Historic ☐Prehistoric ☐Both
1947 (F)

***P7. Owner and Address:**
Calvano Development, Inc.
1001 Shoreline LLC
900 Bush Street Penthouse #1
San Francisco, CA 94109

***P8. Recorded by:**
Brad Brewster, M.A.
Environmental Science Associates
550 Kearny Street, Suite 800
San Francisco, CA 94108

***P9. Date Recorded:** 12/16/14

***P10. Survey Type:**
Intensive

***P11. Report Citation:** ESA, *1001 N. Shoreline Development Initial Study/Mitigated Negative Declaration (IS/MND)*, December, 2014.

***Attachments:** ☐NONE ☐Location Map ☐Sketch Map ■Continuation Sheet ☐Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐ Other (List):

BUILDING, STRUCTURE, AND OBJECT RECORD

***NRHP Status Code** 6Z

***Resource Name or #** 1150 Terra Bella Avenue

B1. Historic Name: 1150 Terra Bella Avenue
B2. Common Name: same
B3. Original Use: Residence
B4. Present Use: Residence
***B5. Architectural Style:** Vernacular Ranch
***B6. Construction History:**
Constructed 1947.

***B7. Moved?** ■No ☐Yes ☐Unknown **Date:** **Original Location:**
***B8. Related Features:**

B9a. Architect: Unknown
b. Builder: Unknown
***B10. Significance: Theme:** N/A
Area:
Period of Significance: N/A **Property Type:** N/A **Applicable Criteria:** N/A

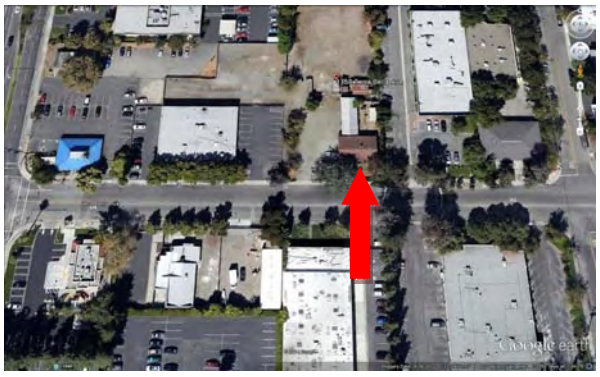
The property at 1150 Terra Bella Avenue was constructed in 1947 as a single family residence when the majority of this portion of Mountain View was still largely in agricultural use. The property was developed for use as a primary residence for owners Marco and Roberta Burtozzi (now deceased) who raised their family there and on an adjoining property at 1015 N. Shoreline Blvd. Aerial maps from 1948 identify this home surrounded by agricultural fields, primarily fruit trees. Nearly all of the other homes in the area, as well as the former agricultural fields, were subdivided and replaced by commercial and industrial uses when this area experienced rapid development during the post-World War II period. Although the property contains some agricultural outbuildings in the rear yard, some of which were developed in the early 1970s according to building permits on file with the City of Mountain Veiw, it is more closely related to post-war suburban expansion than to Mountain View's agricultural past. This property does not appear to be significantly associated with post-war suburban expansion, as this event occurred not only throughout Mountain View and Santa Clara County, but also on a nationwide level. There is no indication that Marco or Roberta Burtozzi were considered locally important persons. Finally, the property is a relatively common, vernacular, example of the Ranch style of architecture, which was a popular style for residences designed in the 1940s – 1960s. For these reasons, the property at 1150 Terra Bella Avenue does not appear to be eligible for listing in the local, state, or national registers of historical resources. This property would not meet the definition of a historical resource for CEQA purposes.

B11. Additional Resource Attributes: HP2 – Single Family Residence

***B12. References:**

Santa Clara County Assessor's Records, accessed 12/12/14
www.historicaerials.com, accessed 12/12/14
Building Permit Records, City of Mountain View, 12/24/12

B13. Remarks:



***B14. Evaluator:** Brad Brewster, ESA

***Date of Evaluation:** 12/29/14

(This space reserved for official comments.)

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # P-43-003148
HRI #
Trinomial
NRHP Status Code

Other Listings
Review Code | Reviewer | Date

 *Resource Name or #: 1015 N. Shoreline Boulevard

P1. Other Identifier: 1015 Stierlin Road
***P2. Location:** ☐ **Not for Publication** ■ **Unrestricted** ***a. County:** Santa Clara
and
***b. USGS 7.5' Quad:** Mountain View **Date:** 1997 **T** ; **R** ; **¼ of** **¼ of Sec** ; M.D. **B.M.**
c. Address: 1015 N. Shoreline Boulevard City: Mountain View Zip:
d. UTM: Zone: 10 ; mE/ mN (G.P.S.)
e. Other Locational Data: APN: 153-15-016 Elevation:

***P3a. Description:**

The property at 1015 N. Shoreline Boulevard in Mountain View is a single-story, approximately 800-square-foot single-family residence with a square plan, a cross-gable roof clad in asphalt shingles, and stucco siding. The home was designed in a vernacular version of the Ranch style of architecture. The construction type is wood framing over a concrete foundation. A front porch, which runs the length of the front façade, has a shed roof supported by three wood posts and concrete floor. Fenestration consists of wood frame, double hung windows with 1-over-1 panes. Decorative wood shutters are located on the front windows. The front door is solid wood with wood framing. The enclosed eaves have wood trim. Wood attic vents are located in the gable peaks. A shed roof addition, possibly an in-filled rear porch, is located at the northeast corner of the building.

***P3b. Resource Attributes:** HP2 – Single Family Property
***P4. Resources Present:** ■Building ☐Structure ☐Object ☐Site ☐District ☐Element of District ☐Other (Isolates, etc.)



P5b. Description of Photo:
Looking southeast. 12/11/2014

***P6. Date Constructed/Age and Sources:** ■Historic
☐Prehistoric ☐Both
c. 1940

***P7. Owner and Address:**
Calvano Development, Inc.
1001 Shoreline LLC
900 Bush Street Penthouse #1
San Francisco, CA 94109

***P8. Recorded by:**
Brad Brewster, M.A.
Environmental Science Associates
550 Kearny Street, Suite 800
San Francisco, CA 94108

***P9. Date Recorded:**
12/16/14

***P10. Survey Type:**
Intensive

***P11. Report Citation:** ESA, *1001 N. Shoreline Development Initial Study/Mitigated Negative Declaration (IS/MND)*, December, 2014

***Attachments:** ☐NONE ☐Location Map ☐Sketch Map ■Continuation Sheet ☐Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐ Other (List):

BUILDING, STRUCTURE, AND OBJECT RECORD

***NRHP Status Code** 6Z

***Resource Name or #** 1015 N. Shoreline Boulevard

B1. Historic Name: 1015 Stierlin Road
B2. Common Name: 1015 N. Shoreline Boulevard
B3. Original Use: Residence
B4. Present Use: Vacant
***B5. Architectural Style:** Vernacular Ranch
***B6. Construction History:**
Constructed circa 1940. Later rear shed addition or in-filled rear porch.

***B7. Moved?** ■No ☐Yes ☐Unknown **Date:** **Original Location:**
***B8. Related Features:**

B9a. Architect: Unknown
b. Builder: Unknown
***B10. Significance: Theme:** N/A
Area:
Period of Significance: N/A **Property Type:** N/A **Applicable Criteria:** N/A

The property at 1015 N. Shoreline Boulevard (formerly Stierlin Road) was constructed on lands that were once part of the 160-acre farm owned by Conrad Stierlin, a Swiss immigrant who arrived in Mountain View in 1852. By the time the subject property was constructed circa 1940, the majority of this portion of north Mountain View was still largely in agricultural use. Aerial photography and topographic maps from the 1940s and 1950s identify this residence, as well as approximately ten other identically-shaped buildings, fronting Stierlin Road and surrounded by fruit trees on both side of the road. As such, these small buildings, including the subject property, may have housed farm workers at one time. The building and surrounding properties at the corner of Shoreline Blvd. and Terra Bella Avenue were purchased by Marco and Roberta Burtozzi circa 1947. Burtozzi built a primary residence at 1150 Terra Bella Avenue in 1947, and various family members lived in the subject property, which they called the 'little house.' By the 1980s, all of the other homes aside from the subject property, as well as the surrounding agricultural fields, had been subdivided and replaced by commercial and industrial uses as this area experienced rapid development during the post-World War II period. Stierlin Road was renamed N. Shoreline Boulevard in 1987. Although this property may have once been associated with Mountain View's agricultural past, it was constructed toward the end of this era, and does not appear to be significantly associated with this local event. The formerly rural/agricultural setting of this property has entirely disappeared, which has reduced its overall integrity of setting and its understanding as a potential former farm worker residence. Research also did not reveal any associations with important individuals who may have lived or worked at the property. The property is not directly associated with early Mountain View farmer, Conrad Stierlin, as the property is located some 1,000 feet south of the original 1870s Stierlin family farmhouse (demolished). There is no indication that Marco or Roberta Burtozzi were considered locally important persons. Finally, the property is a relatively common, vernacular, example of the Ranch style of architecture, which was a popular style for residences designed in the 1940s – 1960s. For these reasons, the property at 1015 N. Shoreline Boulevard does not appear to be eligible for listing in the local, state, or national registers of historical resources. This property would not meet the definition of an historical resource for CEQA purposes.

B11. Additional Resource Attributes: HP2 – Single Family Residence

***B12. References:**

Santa Clara County Assessor's Records, accessed 12/12/14
www.historicaerials.com, accessed 12/12/14
Then and Now, Mountain View, Arcadia Publishing, 2012
Thompson & West Map of Mountain View, 1876
Personal Communication, widow of Marco Burtozzi Jr., with Brad Brewster, ESA, 12/29/14

B13. Remarks:
***B14. Evaluator:** Brad Brewster, ESA

***Date of Evaluation:** 12/16/14



(This space reserved for official comments.)

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # P-43-003151
HRI #
Trinomial
NRHP Status Code

Other Listings
Review Code | Reviewer | Date

 ***Resource Name or #:** 1160 Terra Bella Avenue

P1. Other Identifier:

***P2. Location:** ☐ **Not for Publication** ■ **Unrestricted** ***a. County:** Santa Clara

and

***b. USGS 7.5' Quad:** Mountain View **Date:** 1997 **T** ; **R** ; **¼ of** **¼ of Sec** **;** M.D. **B.M.**

c. Address: 1160 Terra Bella Avenue City: Mountain View Zip:

d. UTM: Zone: 10 ; mE/ mN (G.P.S.)

e. Other Locational Data: APN: 153-15-014 Elevation:

***P3a. Description:**

The property at 1160 Terra Bella Avenue in Mountain View is a single-story, 7,840-square-foot commercial office building with a rectangular plan, constructed of concrete with painted concrete plaster walls, and a flat roof, designed in the Modern style of architecture. The building has a recessed entry in the center of symmetrical front façade. The front portico is supported by square concrete columns. Windows to either side of the front entry are single-pane fixed commercial units with dark metal frames. Recessed and scored plaster walls are located between the windows. Doors are dark metal frame commercial units with smoked glass panels. Paved parking areas are located to the side of the property. Areas in front of the building along Terra Bella Avenue are landscaped with juniper bushes and ornamental street trees.

***P3b. Resource Attributes:** HP6 – Commercial Building

***P4. Resources Present:** ■Building ☐Structure ☐Object ☐Site ☐District ☐Element of District ☐Other (Isolates, etc.)



P5b. Description of Photo: Looking northwest. 12/11/2014

***P6. Date Constructed/Age and Sources:** ■Historic ☐Prehistoric ☐Both
1960 (F)

***P7. Owner and Address:**
Bruce W. McCaul and Karen Pope
McCaul Trust
1370 Lincoln Avenue
Palo Alto, CA 94301

***P8. Recorded by:**
Brad Brewster, M.A.
Environmental Science Associates
550 Kearny Street, Suite 800
San Francisco, CA 94108

***P9. Date Recorded:** 12/16/14

***P10. Survey Type:**
Intensive

***P11. Report Citation:** ESA, *1001 N. Shoreline Development Initial Study/Mitigated Negative Declaration (IS/MND)*, December, 2014.

***Attachments:** ☐NONE ☐Location Map ☐Sketch Map ■Continuation Sheet ☐Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐ Other (List):

BUILDING, STRUCTURE, AND OBJECT RECORD

***NRHP Status Code** 6Z

***Resource Name or #** 1160 Terra Bella Avenue

B1. Historic Name: 1160 Terra Bella Avenue
B2. Common Name: same
B3. Original Use: Residence
B4. Present Use: Same
***B5. Architectural Style:** Modern
***B6. Construction History:**
Constructed in 1960. No visible alterations.

***B7. Moved?** ■No ☐Yes ☐Unknown **Date:** **Original Location:**
***B8. Related Features:**

B9a. Architect: Unknown
b. Builder: Unknown
***B10. Significance: Theme:** N/A
Area: N/A
Period of Significance: N/A
Property Type: N/A
Applicable Criteria: N/A

The property at 1160 Terra Bella Avenue was constructed in 1960 as a single-story commercial office building as this area of Mountain View was transitioning from earlier agricultural uses to commercial, industrial, and high-tech uses during the post-World War II period. According to the building permits on file with the City of Mountain View, tenants included Prime Publications (1967), Information Terminals (1972), and Alto Design (1990). The building was constructed during a period of rapid commercial and industrial expansion, not only in Mountain View and Santa Clara County, but also nationwide. Although the property is associated with Mountain View's post-war commercial growth and its current position as a high-tech center of Silicon Valley, it does not appear to be significantly associated with this event, nor did research reveal any significant associations with other important local events. Research also did not reveal any associations with important individuals who may have lived or worked at the property. Finally, the property is a relatively common, rather than a representative, example of the Modern style of commercial architecture. For these reasons, 1160 Terra Bella Avenue does not appear to be eligible for listing in the local, state, or national registers of historical resources. This property would not meet the definition of a historical resource for CEQA purposes.

B11. Additional Resource Attributes: HP6 – Commercial Building

***B12. References:**

Santa Clara County Assessor's Records, accessed 12/12/14
www.historicaerials.com, accessed 12/12/14
Building Permits, City of Mountain View, 12/24/14

B13. Remarks:



***B14. Evaluator:** Brad Brewster, ESA

***Date of Evaluation:** 12/29/14

(This space reserved for official comments.)

Appendix G
Energy Calculations

1001 N Shoreline Blvd Project Fuel Use

6/17/2019

CO_2 emissions from Construction AQ Calculations (see Appendix B):

Conversion	1 MT =	1000 kg

Diesel Sources	CO_2 Emissions	
Off road equipment	759.1757	MT
Vendor Trucks	224.35	MT
Haul trucks	38.78	MT
TOTAL Diesel Sources =	**1022.31**	**MT**
Convert to kilograms	1.02E+06	kg

Diesel fuel combustion[a] = 10.21 kg CO2/gallon

Diesel Combustion Rate = 100128.66 gallons (over approximately 24 month construction period)

Gasoline Sources	CO_2 Emissions	
Construction workers	261.5946	MT
Convert to kilograms	2.62E+05	kg

Gasoline fuel combustion[a] 8.78 kg CO2/gallon

Gasoline combustion rate = 29794.37 gallons (over approximately 24 month construction period)

CO_2 emissions from Operational AQ Calculations (see Appendix C):

Gasoline Sources	CO_2 Emissions	
Operational Vehicles	1,792.28	MT
Convert to kilograms	1.79E+06	kg

Gasoline fuel combustion[a] 8.78 kg CO2/gallon

Gasoline combustion rate = 204132.33 gallons (per year during operation)

Notes: [a] Emissions factors per The Climate Registry 2019 Default Emission Factors (Table 2.1 - US Default CO_2 Emission Factors for Transport Fuels)

Appendix H
Geotechnical Investigation

ROCKRIDGE GEOTECHNICAL

Prepared for **Sares Regis Group of Northern California**

GEOTECHNICAL INVESTIGATION
PROPOSED MIXED-USE DEVELOPMENT
THE RESIDENCES AT
SHORELINE GATEWAY – PHASE II
1001 NORTH SHORELINE BOULEVARD
MOUNTAIN VIEW, CALIFORNIA

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July 13, 2018
Project No. 17-1382

270 Grand Avenue
Oakland, CA 94610

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510 420-5738 tel
510 652-3096 fax

ROCKRIDGE GEOTECHNICAL

July 13, 2018
Project No. 17-1382

Ms. Janice Yuen
Vice President
Sares Regis Group of Northern California
901 Mariners Island Boulevard, Suite 700
San Mateo, CA 94404

Subject: Geotechnical Investigation
Proposed Mixed-Use Development
The Residences at Shoreline Gateway - Phase II
1001 North Shoreline Boulevard
Mountain View, California

Dear Ms. Yuen,

We are pleased to present our geotechnical investigation report for the proposed mixed-use development to be constructed at 1001 North Shoreline Boulevard in Mountain View, California. Our geotechnical investigation was performed in accordance with our proposal dated July 14, 2017.

The site for Phases I and II of the project consists of four relatively level lots, designated as Lots 1 through 4 on the current civil drawings (C1.0) prepared by BKF Engineers, and encompasses approximately 7.81 acres. The four lots are bordered by Terra Bella Avenue to the south, North Shoreline Boulevard to the west, Highway 101 on-ramp and two-story buildings to the north, and one-story commercial and office buildings to the east. Phase II of the project consists of Lots 1, 3, and 4, which are currently occupied by asphalt-paved parking. Lot 2 is currently under construction as part of Phase I of the project and is not included in this report.

Plans for Phase II include demolishing the asphalt-paved parking lots and constructing an apartment building at the northwestern corner of the site (Lot 1) and a condominium building and parking structure at the southeastern corner of the site (Lots 3 and 4). The apartment building will consist of five levels of wood-framed apartment units over a two-story concrete parking podium and will be constructed near existing site grade. The condominium building will consist of five levels of wood-framed residential units over two levels of reinforced-concrete parking and the parking structure will consist of six levels of reinforced-concrete. Both the condominium building and parking structure will be constructed at grade. Site improvements will also include courtyards, pedestrian

walkways, drive aisles, and landscaping. New pedestrian and vehicular pavements will generally consist of concrete, asphalt, and pavers.

From a geotechnical standpoint, we conclude the site can be developed as planned, provided the recommendations presented in this report are incorporated into the project plans and specifications and properly implemented during construction. The primary geotechnical concerns at the project site are:

- the potential for up to about 4 inches of seismically induced settlement due to liquefaction beneath the proposed buildings;
- foundation settlement due to compression of the underlying clay soils, some of which are lightly to moderately over-consolidated; and
- the presence of highly expansive near-surface soil.

We conclude the proposed buildings may be supported on shallow foundation systems, such as spread footings or a mat, bearing on improved soil. We believe drilled displacement sand-cement (DDSC) columns would be the most economical ground improvement method; however, other soil improvement methods, such as soil-cement (SMX) columns are also feasible. Alternatively, the proposed new buildings may be supported by deep foundation systems.

The recommendations contained in our report are based on a limited subsurface exploration. Consequently, variations between expected and actual subsurface conditions may be found in localized areas during construction. Therefore, we should be engaged to observe grading and foundation installation during which time we may make changes in our recommendations, if deemed necessary.

We appreciate the opportunity to provide our services to you on this project. If you have any questions, please call.

Sincerely yours,
ROCKRIDGE GEOTECHNICAL, INC.





Tessa E. Williams, P.E.
Project Engineer

Craig S. Shields, P.E., G.E.
Principal Geotechnical Engineer

Enclosure

ROCKRIDGE GEOTECHNICAL

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Corrosivity Test Results

ROCKRIDGE GEOTECHNICAL

GEOTECHNICAL INVESTIGATION
PROPOSED MIXED-USE DEVELOPMENT
THE RESIDENCES AT SHORELINE GATEWAY – PHASE II
1001 NORTH SHORELINE BOULEVARD
Mountain View, California

1.0 INTRODUCTION

This report presents the results of the geotechnical investigation performed by Rockridge Geotechnical, Inc. for Phase II of the proposed mixed-use development to be constructed at 1001 North Shoreline Boulevard in Mountain View, California. The site is located at the eastern side of North Shoreline Boulevard between Terra Bella Avenue and Highway 101, as shown on the attached Site Location Map (Figure 1).

The site for Phases I and II of the project consists of four relatively level lots, designated as Lots 1 through 4 on the current civil drawings (C1.0) prepared by BKF Engineers, and encompasses approximately 7.81 acres. The four lots are bordered by Terra Bella Avenue to the south, North Shoreline Boulevard to the west, Highway 101 on-ramp and two-story buildings to the north, and one-story commercial and office buildings to the east. Phase II of the project consists of Lots 1, 3, and 4, which are currently occupied by asphalt-paved parking. Lot 2 is currently under construction as part of Phase I of the development, and is not included in this report.

Plans for Phase II include demolishing the asphalt-paved parking lots and constructing a mixed-use development consisting of an apartment building at the northwestern corner of the site (Lot 1) and a condominium building and parking structure at the southeastern corner of the site (Lots 3 and 4). The apartment building will consist of five levels of wood-framed apartment units over a two-story concrete parking podium. The condominium building will consist of five levels of wood-framed residential units over two levels of reinforced-concrete parking and the parking structure will consist of six levels of reinforced-concrete. All three buildings will be constructed at grade. Site improvements will also include courtyards, pedestrian walkways, drive aisles, and landscaping. New pedestrian and vehicular pavements will generally consist of concrete, asphalt, and pavers.

Structural design loads were not available at the time this report was prepared. Based on our experience with similar buildings, we estimate the average apartment and condominium building pressures will each be on the order of approximately 800 psf and the average building pressure for the parking structure will be on the order of about 1100 psf.

2.0 SCOPE OF SERVICES

Our investigation was performed in accordance with our proposal dated July 14, 2017. Our geotechnical investigation included exploring subsurface conditions at the site by drilling two test borings, performing seven cone penetration tests (CPTs), and performing laboratory testing on selected soil samples. We used the data from our subsurface investigation and previous subsurface investigations in the site vicinity to perform engineering analyses to develop conclusions and recommendations regarding:

- site seismicity and seismic hazards, including the potential for liquefaction and liquefaction-induced ground failure
- the most appropriate foundation type(s) for the proposed structures
- design criteria for the recommended foundation type(s), including vertical and lateral capacities for each of the foundation type(s)
- estimates of foundation settlement
- design groundwater level
- site grading and excavation, including criteria for fill quality and compaction
- subgrade preparation for slabs-on-grade and exterior concrete flatwork
- 2016 California Building Code (CBC) site class and design spectral response acceleration parameters
- corrosivity of the near-surface soil and the potential effects on buried concrete and metal structures and foundations
- construction considerations.

3.0 DATA REVIEW

We gathered and reviewed readily available information related to the subsurface conditions at and in the vicinity of the site, including regional geologic and geotechnical maps, and

geotechnical reports prepared for previous investigations. In addition, we were provided a copy of a previous geotechnical investigation that was performed at the site by Cornerstone Earth Group (Cornerstone) for Phase I of the proposed development.

We previously performed a preliminary geotechnical investigation for a project within the site vicinity, the results of which were presented in a report dated April 17, 2017. The site is located at 1012 Linda Vista Avenue and 1110 Terra Bella Avenue, which is adjacent to the southeastern corner of the project site. Our preliminary investigation consisted of performing three cone penetration tests (CPTs), each to a depth of about 44 feet below the ground surface (bgs), and advancing two hand auger borings to depths ranging from 2 to 6 feet bgs.

At the southwestern corner of the site, Cornerstone previously performed a geotechnical investigation and prepared a design-level geotechnical report for a four-story, at-grade office building, asphalt pavement, and concrete flatwork. The results of their investigation were presented in their report dated May 2, 2014 and titled *Geotechnical Investigation, 1001 North Shoreline Blvd., Mountain View, California*. Cornerstone's investigation included drilling two exploratory borings to depths ranging from 25 to 45 feet bgs and performing two CPTs to depths ranging from 65 to 100 feet bgs. Their investigation also included shear wave velocities measurements of the soil while advancing CPT-1, as well as laboratory testing on soil samples obtained from the borings.

The approximate locations of the borings and CPTs from the two previous investigations are shown on the Site Plan, Figure 2. Subsurface data from the previous investigations was used in our evaluation of subsurface conditions at the site is presented in Appendix C of this report.

4.0 FIELD INVESTIGATION AND LABORATORY TESTING

We investigated the subsurface conditions beneath the site by drilling two borings, advancing four CPTs, and performing laboratory tests on selected soil samples. The approximate locations of the borings and CPTs are shown on the Site Plan (Figure 2). Prior to mobilizing to the site, we contacted Underground Service Alert (USA) to notify them of our work, as required by law,

and obtained a drilling permit from the Santa Clara Valley Water District (SCVWD). We also retained Precision Locating, LLC, a private utility locator, to check that the boring and CPT locations were clear of buried utilities. Details of the field investigation and laboratory testing are described below.

4.1 Test Borings

Two borings, designated as B-1 and B-2, were drilled on September 18, 2017 by Pitcher Drilling Company of East Palo Alto, California at the approximate locations shown on Figure 2. Borings B-1 and B-2 were drilled to depths of 45 and 44 feet bgs, respectively, using a truck-mounted drill rig equipped with rotary-wash drilling equipment. During drilling, our field engineer logged the soil encountered and obtained samples for visual classification and laboratory testing. The logs of Borings B-1 and B-2 are presented in Appendix A on Figures A-1a through A-2b. The soil encountered in the boring was classified in accordance with the classification chart shown on Figure A-3.

Soil samples were obtained using the following samplers:

- Sprague and Henwood (S&H) split-barrel sampler with a 3.0-inch outside diameter and 2.5-inch inside diameter, lined with 2.43-inch inside diameter brass/stainless steel tubes.
- Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside and 1.5-inch inside diameter, without liners.
- Pitcher Tube (PT), which is a thin-walled stainless steel tube with a 3-inch outside diameter.

The S&H and SPT samplers were driven with a 140-pound, automatic hammer falling 30 inches per drop. The samplers were driven up to 18 inches and the hammer blows required to drive the samplers were recorded every six inches and are presented on the boring logs. A "blow count" is defined as the number of hammer blows per six inches of penetration or 50 blows for six inches or less of penetration. The blow counts required to drive the S&H and SPT samplers were converted to approximate SPT N-values using factors of 0.8 and 1.2, respectively, to account for sampler type and approximate hammer energy. The converted SPT N-values are presented on the boring logs.

The PB tubes were advanced to obtain relatively undisturbed samples of clayey soils. PB tube samplers were advanced by circulating drilling fluid to cut away the soil around the perimeter of the sample and pushing the tube using the hydraulic pressure of the rig.

Upon completion, the boreholes were backfilled with neat cement grout in accordance with SCVWD grouting guidelines. The soil cuttings and drilling fluid generated by the drilling operation were placed in 55-gallon drums and subsequently disposed of offsite.

4.2 Cone Penetration Tests

California Push Technologies, Inc. (CPT Inc.) of San Leandro, California performed seven CPTs, designated as CPT-1 through CPT-7, on September 18 and September 19, 2017. The CPTs were advanced to depths ranging from about 100 to 121 feet bgs by hydraulically pushing an approximately 1.7-inch-diameter cone-tipped probe with a projected area of 15 square centimeters into the ground using a 30-ton truck rig. The cone-tipped probe measured tip resistance and the friction sleeve behind the cone tip measured frictional resistance. Electrical strain gauges within the cone continuously measured soil parameters for the entire depth advanced. Soil data, including tip resistance, frictional resistance, and pore water pressure, were recorded by a computer while the test was conducted. Accumulated data were processed by a computer to provide engineering information such as the soil behavior types, approximate strength characteristics, and the liquefaction potential of the soil encountered. The CPT logs, showing tip resistance, friction ratio, and pore water pressure by depth, as well as correlated soil behavior type (Robertson, 2010), are presented in Appendix A on Figures A-4 through A-10A. Depth to groundwater was estimated using pore pressure dissipation test data in all CPTs, with the exception of CPT-4, and is noted on each of the CPT logs. Upon completion, the CPTs were backfilled with cement grout in accordance with SCVWD grouting guidelines.

Shear wave velocities of the soil were measured while advancing CPT-7. Shear wave velocity was measured at approximately 3.3-foot intervals. Advancement of the cone was stopped at these intervals to record an impulse generated at the ground surface. An accelerometer mounted just above the friction sleeve recorded an impulse generated at the surface when a beam pressed

against the ground under a CPT rig outrigger was struck with a hammer. The arrival time from the source (hammer striking the beam) to the accelerometer inside the cone was converted to a vertical travel path and the difference between successive 3.3-foot measurements was used to determine the shear wave travel time over the interval. This method is also called the pseudo-time interval method. Plots of the measured shear wave velocity at each interval are presented on Figure A-10B in Appendix A.

4.3 Laboratory Testing

Geotechnical laboratory tests were performed on selected soil samples to assess their engineering properties and physical characteristics. Soil samples were tested by B. Hillebrandt Soils Testing, Inc. of Alamo, California to measure moisture content, dry density, plasticity (Atterberg limits), fines content, strength, and compressibility (consolidation characteristics). Corrosivity testing of a near-surface soil sample was performed by Project X Corrosion Engineering of Murrieta, California. The results of the geotechnical laboratory tests are presented on the boring logs and in Appendix B.

5.0 SUBSURFACE CONDITIONS

The site is underlain by Holocene-age alluvial deposits (Qha), as shown on the Regional Geology Map, Figure 3. Alluvial fan deposits generally consist of a mixture of fine-grained and coarse-grained deposits and are deposited by rivers and streams. The results of our borings and CPTs, as well as boring and CPTs from previous investigations, indicate the site is underlain by alluvium consisting of interbedded layers of sand and gravel with varying fines content and clay with variable amounts of sand and gravel to the maximum depth explored of 121 feet bgs. In the upper approximately 65 feet, the sand and gravel is generally medium dense to dense and the clay is generally medium stiff to very stiff. Below a depth of about 65 feet, the sand and gravel become dense to very dense and the clay and silt becomes very stiff to hard.

The Atterberg limits test results indicate the surficial clay deposits are highly expansive. Expansive clay is subject to large volume changes with changes in moisture content.

5.1 Groundwater Conditions

The depth to groundwater was estimated using pore pressure dissipation test data at depths ranging from about 7 to 9-1/2 feet bgs in each of the CPTs, with the exception of CPT-4. The groundwater level was obscured by the drilling fluid in both borings B-1 and B-2.

Groundwater was measured during Cornerstone's investigation at a depth of about 10-1/2 feet bgs during or immediately after drilling the test borings. It should be noted the groundwater level was likely not given adequate time to stabilize at the time the measurements were taken. Based on our review of available historic groundwater information within the site vicinity, we estimate the historic high groundwater level at the site is about 5 feet bgs. The groundwater level at the site is expected to fluctuate several feet seasonally with potentially larger fluctuations annually, depending on the amount of rainfall.

Based on the available groundwater measurements, we conclude a groundwater depth of 5 feet bgs should be used for design.

6.0 SEISMIC CONSIDERATIONS

Because the project site is in a seismically active region, we evaluated the potential for earthquake-induced geologic hazards, including ground shaking, ground surface rupture, liquefaction,[1] lateral spreading,[2] and cyclic densification[3]. The results of our evaluation regarding seismic considerations for the project site are presented in the following sections.

---

1 Liquefaction is a phenomenon where loose, saturated, cohesionless soil experiences temporary reduction in strength during cyclic loading such as that produced by earthquakes.

2 Lateral spreading is a phenomenon in which surficial soil displaces along a shear zone that has formed within an underlying liquefied layer. Upon reaching mobilization, the surficial blocks are transported downslope or in the direction of a free face by earthquake and gravitational forces.

3 Cyclic densification is a phenomenon in which non-saturated, cohesionless soil is compacted by earthquake vibrations, causing ground-surface settlement.

6.1 Regional Seismicity and Faulting

The major active faults in the area are the San Andreas, Hayward, Calaveras, and San Gregorio, faults. These and other faults of the region are shown on Figure 4. The fault systems in the Bay Area consist of several major right-lateral strike-slip faults that define the boundary zone between the Pacific and the North American tectonic plates. Numerous damaging earthquakes have occurred along these fault systems in recorded time. For these and other active faults within a 50-kilometer radius of the site, the distance from the site and estimated mean characteristic moment magnitude[4] [Working Group on California Earthquake Probabilities (WGCEP, 2008) and Cao et al. (2003)] are summarized in Table 1.

[4] Moment magnitude is an energy-based scale and provides a physically meaningful measure of the size of a faulting event. Moment magnitude is directly related to average slip and fault rupture area.

TABLE 1
Regional Faults and Seismicity

Fault Segment	Approximate Distance from Site (km)	Direction from Site	Mean Characteristic Moment Magnitude
Monte Vista-Shannon	8	Southwest	6.5
N. San Andreas - Peninsula	12	Southwest	7.2
N. San Andreas (1906 event)	12	Southwest	8.1
Total Hayward	19	Northeast	7.0
Total Hayward-Rodgers Creek	19	Northeast	7.3
Total Calaveras	24	East	7.0
N. San Andreas - Santa Cruz	27	South	7.1
San Gregorio Connected	31	West	7.5
Zayante-Vergeles	37	Southeast	7.0
Mount Diablo Thrust	42	Northeast	6.7
Greenville Connected	46	Northeast	7.0

In the past 200 years, four major earthquakes (i.e., Magnitude > 6) have been recorded on the San Andreas Fault. In 1836, an earthquake with an estimated maximum intensity of VII on the Modified Mercalli (MM) Intensity Scale occurred east of Monterey Bay on the San Andreas Fault (Toppozada and Borchardt 1998). The estimated moment magnitude, M_w, for this earthquake is about 6.25. In 1838, an earthquake occurred on the Peninsula segment of the San Andreas Fault. Severe shaking occurred with an MM of about VIII-IX, corresponding to an M_w of about 7.5. The San Francisco Earthquake of 1906 caused the most significant damage in the history of the Bay Area in terms of loss of lives and property damage. This earthquake created a surface rupture along the San Andreas Fault from Shelter Cove to San Juan Bautista approximately 470 kilometers in length. It had a maximum intensity of XI (MM), an M_w of

about 7.9, and was felt 560 kilometers away in Oregon, Nevada, and Los Angeles. The most recent earthquake to affect the Bay Area was the Loma Prieta Earthquake of October 17, 1989 with an M_w of 6.9. This earthquake occurred in the Santa Cruz Mountains about 45 kilometers south of the site.

In 1868, an earthquake with an estimated maximum intensity of X on the MM scale occurred on the southern segment (between San Leandro and Fremont) of the Hayward Fault. The estimated M_w for the earthquake is 7.0. In 1861, an earthquake of unknown magnitude (probably an M_w of about 6.5) was reported on the Calaveras Fault. The most recent significant earthquake on this fault was the 1984 Morgan Hill earthquake (M_w = 6.2).

The U.S. Geological Survey's 2014 Working Group on California Earthquake Probabilities has compiled the earthquake fault research for the San Francisco Bay area in order to estimate the probability of fault segment rupture. They have determined that the overall probability of moment magnitude 6.7 or greater earthquake occurring in the San Francisco Region during the next 30 years (starting from 2014) is 72 percent. The highest probabilities are assigned to the Hayward Fault, Calaveras Fault, and the northern segment of the San Andreas Fault. These probabilities are 14.3, 7.4, and 6.4 percent, respectively.

6.2 Geologic Hazards

During a major earthquake on a segment of one of the nearby faults, strong to very strong ground shaking is expected to occur at the project site. Strong shaking during an earthquake can result in ground failure such as that associated with soil liquefaction, lateral spreading, and cyclic densification. We used the results of the borings and CPTs performed within the site vicinity to evaluate the potential of these phenomena occurring at the project site.

6.2.1 Ground Shaking

The ground shaking intensity felt at the project site will depend on: 1) the size of the earthquake (magnitude), 2) the distance from the site to the fault source, 3) the directivity (focusing of earthquake energy along the fault in the direction of the rupture), and 4) site-specific soil

conditions. The site is about 12 kilometers from the San Andreas Fault and 19 kilometers from a segment of the Hayward Fault. Therefore, the potential exists for a large earthquake to induce strong to very strong ground shaking at the site during the life of the project.

6.2.2 Ground Surface Rupture

Historically, ground surface displacements closely follow the trace of geologically young faults. The site is not within an Earthquake Fault Zone, as defined by the Alquist-Priolo Earthquake Fault Zoning Act, and no known active or potentially active faults exist on the site. We therefore conclude the risk of fault offset at the site from a known active fault is very low. In a seismically active area, the remote possibility exists for future faulting in areas where no faults previously existed; however, we conclude the risk of surface faulting and consequent secondary ground failure from previously unknown faults is also very low.

6.2.3 Liquefaction and Liquefaction-Induced Settlement

When a saturated, cohesionless soil liquefies, it experiences a temporary loss of shear strength created by a transient rise in excess pore pressure generated by strong ground motion. Soil susceptible to liquefaction includes loose to medium dense sand and gravel, low-plasticity silt, and some low-plasticity clay deposits. Flow failure, lateral spreading, differential settlement, loss of bearing strength, ground fissures and sand boils are evidence of excess pore pressure generation and liquefaction. As shown on Figure 5, the site is within a liquefaction hazard zone, defined by the map titled *State of California, Seismic Hazard Zones, Mountain View Quadrangle, Official Map,* prepared by the California Geological Survey (CGS), dated October 18, 2006.

Liquefaction susceptibility was assessed using the software CLiq v2.0 (GeoLogismiki, 2016). CLiq uses measured field CPT data and assesses liquefaction potential given a user-defined earthquake magnitude and peak ground acceleration (PGA). We performed a liquefaction triggering analysis using the CPT and boring log data within the site vicinity in accordance with the methodology by Boulanger and Idriss (2014).

Our analysis was performed using a high groundwater depth of 5 feet bgs. In accordance with the 2016 CBC, we used a peak ground acceleration of 0.53 times gravity (g) in our liquefaction evaluation; this peak ground acceleration is consistent with the Maximum Considered Earthquake Geometric Mean (MCE_G) peak ground acceleration adjusted for site effects (PGA_M). We also used a Moment magnitude 8.1 earthquake, which is consistent with the mean characteristic Moment magnitude for the San Andreas Fault 1906 event, as presented in Table 1.

Our analyses indicate there are relatively thin soil layers between depths of approximately 6 and 55 feet bgs that are susceptible to liquefaction during a major earthquake. To estimate potential ground deformations due to liquefaction, we considered three mechanisms of seismically-induced building settlement: volumetric-induced, shear-induced, and ejecta-induced. Settlement due to volumetric strain, typically designated as "free-field" settlement, occurs due to: 1) post-liquefaction sedimentation resulting from high pore pressures generated during strong ground shaking; and 2) post-liquefaction consolidation as excess pore pressures dissipate. Shear-induced ground deformations are caused by shear stresses exerted on the underlying soil by a structure subjected to cyclic loading, which can result in a partial bearing capacity failure (punching failure) or ratcheting displacement due to soil-structure interaction. Ejecta-induced deformations occur when soil beneath the foundation of a structure is brought to the ground surface during strong shaking. When soil ejecta occurs during a major seismic event, the settlements are typically large and difficult to quantify; therefore, deformations due to soil ejecta are not included in the liquefaction-induced settlement calculations and are further discussed in the section below regarding liquefaction-induced ground failure.

We estimated free-field settlement due to liquefaction using the methodology developed by Zhang et al. (2002) and shear-induced building settlement during a major earthquake using methodology developed by Bray et al. (2017). For our settlement analyses, we assumed average building pressures of approximately 800 and 1100 psf for the residential buildings and parking structure, respectively.

Based on the results of our seismically-induced settlement analyses, we estimate total and differential settlements of the proposed apartment and condominium buildings associated with liquefaction after an MCE_G event generating a PGA_M of 0.53g will be on the order of about 3 inches and 1-1/2 inches over horizontal distance of 30 feet, respectively. We estimate total and differential settlements of the proposed parking structure due to liquefaction after an MCE_G event will be on the order of approximately 4 inches and 2 inches over horizontal distance of 30 feet, respectively. These are the 84th percentile (median plus one standard deviation) ground-deformation estimates, indicating that approximately 16 percent of sites would experience seismically-induced settlement greater than the estimates presented above and about 84 percent would experience less settlement given the expected ground motions generated by an MCE_G event, current soil conditions, and estimated building loads.

The median and standard deviation values of seismically-induced settlement (free-field plus shear-induced) estimated at each CPT location for the proposed residential buildings and the parking structure are presented in Table 2 and Table 3, respectively.

TABLE 2
Seismically-Induced Ground Deformations
Proposed Apartment and Condominium Buildings

CPT No.	Median – σ (inches)	Median (inches)	Median + σ (inches)
CPT-1	1.6	2.1	2.9
CPT-2	0.8	1.1	1.6
CPT-3	1.8	2.3	3.2
CPT-4	1.2	1.5	2.1
CPT-5	1.6	2.1	3.0
CPT-6	1.2	1.6	2.4
CPT-7	1.3	1.8	2.6

TABLE 3
Seismically-Induced Ground Deformations
Proposed Parking Structure

CPT No.	Median – σ (inches)	Median (inches)	Median + σ (inches)
CPT-4	1.5	2.1	3.0
CPT-5	2.0	2.9	4.2
CPT-6	1.6	2.3	3.4
CPT-7	1.7	2.5	3.7

As discussed in later sections of this report, we judge the anticipated differential settlements due to both static and seismic load conditions exceed the typical tolerance of a conventional shallow foundation system. The potential for liquefaction-induced settlement within the relatively shallow layers should be mitigated if the building is to be supported on a shallow foundation system. If the upper 65 feet of soil beneath the proposed new buildings is improved, we estimate that total building settlement associated with liquefaction of the remaining layers will be less than about one inch and liquefaction-induced differential settlement will be about 1/2 inch over a horizontal distance of 30 feet.

6.2.4 Liquefaction-Induced Ground Failure

The potential for liquefaction-induced ground failure depends on the thickness of the liquefiable soil layer relative to the thickness of the overlying non-liquefiable material. Ishihara (1985) presented empirical relationship that provides criteria that can be used to evaluate whether liquefaction-induced ground failure, such as sand boils, would be expected to occur under a given level of shaking for a liquefiable layer of given thickness overlain by a resistant, or protective, surficial layer.

We evaluated the potential for surface manifestation of liquefaction using an empirical relationship developed by Ishihara (1985). We also computed the post-liquefaction bearing capacity using methodology by Meyerhof and Hanna (1978) for a two-layered system to

determine whether a punching failure is likely to occur during an MCE_G event. On the basis of our evaluation, we conclude the potentially liquefiable layers are sufficiently thin and have high enough fines content such that the potential for surface manifestations from liquefaction, such as sand boils, and loss of bearing capacity for shallow foundations is low.

Lateral spreading is a phenomenon in which a surficial soil displaces along a shear zone that has formed within an underlying liquefied layer. The surficial blocks are transported downslope or in the direction of a free face, such as a channel, by earthquake and gravitational forces. Lateral spreading is generally the most pervasive and damaging type of liquefaction-induced ground failure generated by earthquakes.

Although numerous thin, potentially liquefiable layers were encountered, the layers do not appear to be continuous and the topography of the site and surrounding area is relatively flat. Therefore, we conclude the risk of lateral spreading is low.

6.2.5 Cyclic Densification

Cyclic densification (also referred to as differential compaction) of non-saturated sand (sand above groundwater table) can occur during an earthquake, resulting in settlement of the ground surface and overlying improvements. Based on the subsurface data from our field investigations, we conclude the soil above the groundwater table is sufficiently cohesive such that the risk of cyclic densification is low.

7.0 DISCUSSION AND CONCLUSIONS

Based on the results of our engineering analyses using the subsurface data collected from within the site vicinity, we conclude the site may be developed as proposed provided the geotechnical issues discussed below are properly addressed. The primary geotechnical issues affecting the proposed development are: 1) the potential for up to about 4 inches of seismically-induced settlement due to liquefaction beneath the proposed buildings, 2) foundation settlement due to compression of the underlying clay soils, some of which are lightly to moderately over-

consolidated, and 3) the presence of highly expansive near-surface soil. These issues are discussed in more detail below.

7.1 Expansive Soil

Atterberg limits tests performed on samples of the existing near-surface clay indicate this material is highly expansive. Expansive near-surface soil is subject to volume changes during fluctuations in moisture content. These volume changes can cause movement and cracking of foundations, pavements, and slabs. Therefore, foundations, pavements, and slabs should be designed and constructed to resist the effects of the expansive soil. In general, the effects of expansive soil can be mitigated by moisture-conditioning the expansive soil, providing select, non-expansive fill or lime-treated soil below interior and exterior slabs and behind retaining walls, and either supporting foundations below the zone of severe moisture change or by providing a stiff, shallow foundation that can limit deformation of the superstructure as the underlying soil shrinks and swells.

7.2 Foundation Support

The site is underlain by moderately compressible clay layers that extend to a depth of about 65 feet bgs. If the proposed new buildings are supported on a shallow foundation system, settlement will occur due to compression of the underlying clay under static foundation loads. Based on our analyses using the assumed average building pressures presented in Section 1.0, we estimate long-term total and differential settlement of the two proposed residential buildings supported on shallow foundation systems will be on the order of 2 inches and 1 inch over a horizontal distance of 30 feet, respectively. We estimate total long-term total and differential settlement of the proposed new parking structure will be on the order of 2-1/2 inches and 1-1/4 inch over a horizontal distance of 30 feet, respectively. As previously discussed, a major earthquake could result in additional differential settlements of up to 1-1/2 inches and 2 inches for the proposed new residential buildings and parking structure, respectively.

On the basis of our experience, we judge the anticipated differential settlements of unimproved soil due to both static load conditions and post-liquefaction reconsolidation exceed the typical tolerance of shallow foundation systems, such as spread footings or a mat foundation.

We conclude a shallow foundation system, such as footings or a mat, supported on improved soil would be an appropriate foundation system for the proposed new at-grade buildings, provided: (1) the soil improvement is implemented to mitigate liquefaction, and (2) the soil improvement extends to a depth that would reduce differential settlement of the structure under both static and seismic conditions to a tolerable amount. On the basis of our experience, we believe the most appropriate ground improvement method for the site conditions consists of drilled displacement sand-cement (DDSC) columns.

DDSC columns are installed by advancing a continuous flight, hollow-stem auger that mostly displaces the soil and then pumping a sand-cement mixture into the hole under pressure as the auger is withdrawn. This system results in low vibration during installation and generates little to no drilling spoils for off-haul. DDSC columns are installed under design-build contracts by specialty contractors. The required size, spacing, length, and strength of columns should be determined by the contractor, based on the desired level of improvement. The replacement ratio for ground improvement should be selected to mitigate liquefaction, as well as to address static settlement concerns associated with the moderately compressible clay layers. We recommend a preliminary design, including calculations of static and seismic settlement, be prepared by the ground improvement contractor and submitted for our review.

Alternatively, the proposed buildings may be supported on deep foundation systems such as auger cast-in-place (ACIP) piles or Torque Down piles, both of which can be installed with minimal noise and vibrations. We can provide deep foundation recommendations upon request.

7.3 Construction Considerations

The soil to be excavated generally consists of variable amounts of clay, sand, and gravel which can be excavated with conventional earth-moving equipment such as loaders and backhoes. If

site grading is performed during the rainy season, the near-surface clay will likely be wet and will have to be dried before compaction can be achieved. Heavy rubber-tired equipment, such as scrapers and vibratory rollers, could cause excessive deflection (pumping) of the wet clay and, therefore, should be avoided. If the project schedule or weather conditions do not permit sufficient time for drying of the soil by aeration, the subgrade can be treated with lime prior to compaction or imported granular fill can be used. The appropriate amount of lime should be determined during construction based on a visual examination and, if necessary, laboratory testing of the soil to be treated. It is also important that the moisture content of subgrade soil is sufficiently high to reduce the expansion potential. If the grading work is performed during the dry season, moisture-conditioning may be required.

Excavations that will be deeper than five feet and will be entered by workers should be sloped or shored in accordance with CAL-OSHA standards (29 CFR Part 1926). The contractor should be responsible for the construction and safety of temporary slopes.

7.4 Soil Corrosivity

Corrosivity testing was performed by Project X Corrosion Engineering of Murrieta, California on a near-surface soil sample obtained from Boring B-2 at a depth of approximately 3 feet bgs. The results of the corrosivity tests are presented in Appendix B.

Based on the resistivity test results, which indicate the resistivity of the soil at its in-situ moisture content is 2,144 ohm-centimeters, we conclude the near-surface soil should be considered as "moderately corrosive" to buried metals. Accordingly, all buried iron, steel, cast iron, ductile iron, galvanized steel and dielectric-coated steel or iron should be protected against corrosion depending upon the critical nature of the structure. The test results indicate that sulfate and chloride concentrations are insufficient to damage reinforced concrete structures below ground, and the pH of the soil does not present a problem with buried iron, steel, mortar-coated steel, and reinforced concrete.

8.0 RECOMMENDATIONS

Recommendations for site grading, foundation design, ground improvement, and seismic design are presented in this section of the report.

8.1 Site Preparation and Grading

Site clearing should include the removal of all existing underground utilities and buried foundations, if any. In general, abandoned underground utilities should be removed to the property line or service connections and properly capped or plugged with concrete. Where existing utility lines are outside of the proposed building footprint and will not interfere with the proposed construction, they may be abandoned in-place provided the lines are filled with lean concrete or cement grout to the property line. Voids resulting from demolition activities should be properly backfilled with compacted fill following the recommendations provided later in this section.

The near-surface clay at the site is highly expansive. To mitigate the detrimental effects of expansive near-surface clay, at-grade slabs-on-grade should be underlain by at least 12 inches (measured below the bottom of capillary moisture break) of non-expansive soil, which may consist of on-site low-plasticity soil, lime-treated on-site clay, or imported select fill compacted per the requirements presented in Table 4. The soil subgrade beneath proposed improvements or areas for new fill should be scarified to a depth of at least 12 inches, moisture-conditioned to at least four percent above optimum moisture content, and compacted to between 87 and 92 percent relative compaction[5].

On-site soil may be used as general fill, provided the material is free of organic matter, contain no rocks or lumps larger than three inches in greatest dimension, and be approved by the Geotechnical Engineer. If material to be used as fill is imported to the site, it should meet the

[5] Relative compaction refers to the in-place dry density of soil expressed as a percentage of the maximum dry density of the same material, as determined by the ASTM D1557-09 laboratory compaction procedure.

requirements for select fill provided below in Section 8.1.1. A summary of the compaction requirements for the various types of fill that may be used at the site is presented in Table 4.

TABLE 4
Summary of Compaction Requirements

Location	Required Relative Compaction (percent)	Moisture Requirement
Building pad subgrade – native high-plasticity clay	87 – 92	4+% above optimum
General fill – lime-treated clay and low-plasticity on-site and imported	90+	Above optimum
General fill – native high-plasticity clay	87 – 92	4+% above optimum
Utility trench backfill – native high-plasticity clay	87 – 92	4+% above optimum
Utility trench backfill – low-plasticity	90+	Above optimum
Utility trench - clean sand or gravel	95+	Near optimum
Pavement subgrade – native high-plasticity clay	90+	2+% above optimum
Pavement subgrade – low-plasticity	95+	Above optimum
Pavement - aggregate base	95+	Near optimum
Exterior slabs – native high-plasticity clay	87 – 93	4+% above optimum
Exterior slabs – low-plasticity	90+	Above optimum
Exterior slabs – select fill	90+	Above optimum

Where the above recommended compaction requirements are in conflict with the City of Mountain View standard details for pavements and sidewalks within the public right-of-way, the City Engineer or inspector should determine which compaction requirements should take precedence.

8.1.1 Soil Subgrade Stabilization

In some areas, soft, wet soil may be exposed during grading, causing the subgrade to deflect and rut under the weight of grading equipment. Although, the majority of the soil beneath the site consists of stiff to very stiff clay, if heavy wheeled equipment is used during the rainy season, these materials may become disturbed and soften. In these areas, some form of subgrade stabilization may be required if disturbance occurs. Several options for stabilizing subgrade are presented below.

Aeration

Aeration consists of mixing and turning the soil to naturally lower the moisture content to an acceptable level. Aeration typically requires several days to a week of warm, dry weather to effectively dry the material. Material to be dried by aeration should be scarified to a depth of at least 12 inches; the scarified material should be turned at least twice a day to promote uniform drying. Once the moisture content of the aerated soil has been reduced to acceptable levels, the soil should be compacted in accordance with our previous recommendations. Aeration is typically the least costly subgrade stabilization alternative; however, it generally requires the most time to complete and may not be effective if the soft material extends to great depths. Aeration will likely not be effective if the building subgrade extends below or near the groundwater table; however, it depends on the time of year construction is performed.

Overexcavation

Another method of achieving suitable subgrade in areas where soft, wet soil is exposed is to overexcavate the soft subgrade soil and replace it with drier, granular material. If the soft material extends to great depths, the upper 18 to 24 inches of soft material may be overexcavated and a geotextile tensile fabric (Mirafi 500X or equivalent) placed beneath the granular backfill to help span over the weaker material. The fabric should be pulled tight and placed at the base of the overexcavation, extending at least two feet laterally beyond the limits of the overexcavation in all directions. The fabric should be overlapped by at least two feet at all seams. Granular

material such as Class 2 aggregate base should then be placed and compacted over the geotextile tensile fabric.

Where very soft subgrade conditions are encountered, a bi-directional geogrid, such as Tensar TriAx TX-140 or equivalent, may be required in lieu of tensile fabric. Where geogrids are used, the depth of overexcavation will likely be on the order of 12 to 18 inches. The geogrids should be overlapped by at least two feet and tied with hog rings or nylon ties at a spacing not to exceed 10 feet. The geogrids should be covered with a well-graded granular fill such as Class 2 aggregate base; open-graded rock should not be used. All backfill placed over the geogrid should be compacted in accordance with our previous recommendations.

Chemical Treatment

Lime and/or cement have been successfully used to dry and stabilize fine-grained soils with varying degrees of success. Lime- and/or cement-treatment will generally decrease soil density, change its plasticity properties, and increase its strength. The degree to which lime will react with soil depends on such variables as type of soil, mineralogy, quantity of lime, and length of time the lime-soil mixture is cured. Cement is generally used when a significant amount of granular material or low-plasticity silt is present in the soil. The quantity of lime and/or cement added generally ranges from 3 to 7 percent by weight and should be determined by laboratory testing. The specialty contractor performing the chemical treatment should select the most appropriate additive and quantity for the soil conditions encountered.

If chemical treatment is used to stabilize soft subgrade, a treatment depth of about 18 inches below the final soil subgrade will likely be required. The soil being treated should be scarified and thoroughly broken up to full depth and width. The treated soil should not contain rocks or soil clods larger than three inches in greatest dimension. Treated soil should be compacted to at least 90 percent RC, and at least 95 percent RC in the upper six inches of pavement subgrade.

8.1.2 Select Fill

Select fill should consist of imported soil that is free of organic matter, contain no rocks or lumps larger than three inches in greatest dimension, have a liquid limit less than 40 and plasticity index less than 15, and be approved by the geotechnical engineer. Select fill should be placed in lifts not exceeding eight inches in loose thickness, moisture-conditioned to above optimum moisture content, and compacted to at least 90 percent relative compaction beneath concrete flatwork and sidewalks. Beneath vehicular pavements, the select fill should be compacted to at least 95 percent relative compaction. Samples of proposed select fill material should be submitted to the geotechnical engineer at least three business days prior to use at the site.

The grading contractor should provide analytical test results or other suitable environmental documentation indicating the imported fill is free of hazardous materials at least three days before use at the site. If this data is not provided, a minimum of two weeks will be required to perform any necessary analytical testing.

8.1.3 Exterior Flatwork Subgrade Preparation

We recommend a minimum of six inches of engineered (select) fill be placed beneath proposed exterior concrete flatwork, including patio slabs and sidewalks; the select fill should extend at least one foot beyond the slab edges. Select fill beneath exterior slabs-on-grade, such as patios and sidewalks, should be moisture-conditioned and compacted in accordance with the requirements provided above in Table 4.

Even with six inches of select fill, exterior slabs may experience some cracking due to shrinking and swelling of the underlying expansive soil. Thickening the slab edges and adding additional reinforcement will control this cracking to some degree. In addition, where slabs provide access to buildings, it would be prudent to dowel the entrance to the building to permit rotation of the slab as the exterior ground shrinks and swells and to prevent a vertical offset at the entries.

8.1.4 Utility Trench Backfill

Excavations for utility trenches can be readily made with a backhoe. All trenches should conform to the current CAL-OSHA requirements. To provide uniform support, pipes or conduits should be bedded on a minimum of four inches of sand or fine gravel. After the pipes and conduits are tested, inspected (if required) and approved, they should be covered to a depth of six inches with sand or fine gravel, which should be mechanically tamped. Backfill for utility trenches and other excavations is also considered fill, and should be placed and compacted in accordance with the recommendations previously presented. If imported clean sand or gravel (defined as soil with less than 10 percent fines) is used as backfill, it should be compacted to at least 95 percent relative compaction. If fill thickness is five feet or greater, it should be compacted to at least 95 percent relative compaction. Jetting of trench backfill should not be permitted. Special care should be taken when backfilling utility trenches in pavement areas. Poor compaction may cause excessive settlements, resulting in damage to the pavement section.

Foundations for the proposed building should be bottomed below an imaginary line extending up at a 1.5:1 (horizontal to vertical) inclination from the base of utility trenches. Alternatively, the portion of the utility trench (excluding bedding) that is below the 1.5:1 line can be backfilled with controlled low-strength material (CLSM) with a 28-day unconfined compressive strength of at least 100 pounds per square inch (psi) or Class 2 AB compacted to at least 95 percent relative compaction.

Where utility trenches enter the building pad, an impermeable plug consisting of CLSM, at least three feet in length, should be installed where the trenches enter the building footprint. Furthermore, where sand- or gravel-backfilled trenches cross planter areas and pass below asphalt or concrete pavements, a similar plug should be placed at the edge of the pavement. The purpose of these recommendations is to reduce the potential for water to become trapped in trenches beneath the building or pavements. This trapped water can cause heaving of soils beneath slabs and softening of subgrade soil beneath pavements.

8.1.5 Drainage and Landscaping

Positive surface drainage should be provided around the buildings to direct surface water away from foundations. To reduce the potential for water ponding adjacent to the buildings, we recommend the ground surface within a horizontal distance of five feet from the building slope down away from the building with a surface gradient of at least two percent in unpaved areas and one percent in paved areas. In addition, roof downspouts should be discharged into controlled drainage facilities to keep the water away from the foundation. The use of water-intensive landscaping around the perimeter of the at-grade building should be avoided to reduce the amount of water introduced to the expansive clay subgrade.

Care should be taken to minimize the potential for subsurface water to collect beneath pavements and pedestrian walkways. Where landscape beds and tree wells are immediately adjacent to pavements and flatwork that are not designed as permeable systems, we recommend vertical cutoff barriers be incorporated into the design to prevent irrigation water from saturating the subgrade and AB. These barriers may consist of either flexible impermeable membranes or deepened concrete curbs.

Storm water treatment systems (infiltration basins, rain gardens, bio-retention systems, vegetated swales, flow-through planters, etc.), if constructed at the site, should be provided with underdrains, as well as impermeable liners. Due to the low permeability of the near-surface soil, these systems should not be designed for exfiltration in to the subgrade soil. The drainage layer beneath the "treatment" soil should consist of a minimum 12-inch-thick layer of Caltrans Class 2 Permeable drainage material and include a minimum 6-inch-diameter perforated drain pipe with a filter sock. If the perforated pipe is placed with the perforations facing downward, the filter sock may be omitted. An impermeable liner consisting of a high-density polyethylene membrane (or equivalent) that is at least 10 mils thick should line the entire bottom and sides of the system.

Prior experience and industry literature indicate that some species of high water-demand[6] trees can induce ground-surface settlement by drawing water from the expansive clay, causing it to shrink. Where these types of trees are planted near the proposed new buildings, the ground-surface settlement may result in damage to structure. This problem usually occurs 10 or more years after planting, as the trees reach mature height. To reduce the risk of tree-induced settlement, we recommend trees of the following genera not be planted within 25 feet of the at-grade portion of the building, unless adequate deep irrigation is provided at the tree locations: *Eucalyptus, Populus, Quercus, Crataegus, Salix, Sorbus* (simple-leafed), *Ulmus, Cupressus, Chamaecyparis,* and *Cupressocyparis.* Because this is a limited list and does not include all genera that may induce ground-surface settlement, a tree specialist should be consulted prior to selection of trees to be planted at the site.

8.2 Foundation Design

We recommend the proposed new at-grade buildings be supported on a shallow foundation system, such as footings or a mat, bearing on improved soil. The foundation should be designed to resist the effects of expansive near-surface soil. The following sections present our recommendations for the design and construction of conventional spread footings bearing on soil improved with DDSC columns for the new buildings. We can also provide recommendations for other ground improvement methods or deep foundation systems upon request.

8.2.1 Footings on Improved Soil

The proposed buildings may be supported on spread and continuous footings bearing on improved ground. Individual spread footings may be used at interior column locations; a continuous, deepened perimeter footing should be used around the perimeter of the building. The perimeter footings should be deepened to act as barriers to reduce the potential for moisture change beneath the slab-on-grade floors. Where the exterior footings will consist of individual

[6] "Water-demand" refers to the ability of the tree to withdraw large amounts of water from the soil subgrade, rather than soil suction exerted by the root system.

spread footings, a deepened, turned-down slab edge may be used in lieu of a continuous footing between the individual footings.

Continuous footings should be at least 16 inches wide and isolated spread footings should be at least 24 inches wide. Perimeter footings should be bottomed at least 36 inches below the lowest adjacent outside grade. The perimeter footing embedment depth may be decreased by six inches where pavement or concrete flatwork is adjacent to the new building. Interior footings should extend at least 24 inches below the bottom of the capillary moisture break.

For preliminary design of spread footings bearing on improved ground, we recommend assuming ground improvement elements will extend below the potentially liquefiable soil layers to a depth of about 65 feet bgs. Based on discussions with contractors with experience installing DDSC columns in the Bay Area, we anticipate the ground improvement systems described in Section 7.2, if properly designed, should be capable of increasing the average allowable bearing pressure for footings to at least 5,000 pounds per square foot (psf) for dead-plus-live-loads and limiting combined static and seismic differential settlements to less than one inch over a horizontal distance of 30 feet. Although higher allowable bearing pressures can be achieved with closer spacing of the DDSC columns, we recommend the initial foundation design be performed using an allowable bearing pressure of 5,000 psf. These values may be increased by one-third for total loads. The actual design allowable bearing pressures and estimated settlements should be evaluated by the design-build ground improvement contractor, as they will be based on the diameter, depth, and spacing of the ground improvement elements

Lateral loads may be resisted by a combination of passive pressure on the vertical faces of the footings and friction between the bottoms of the footings and the supporting soil. Lateral resistance may be computed using an allowable passive pressure of 2,000 psf (uniform distribution) for transient loads, including wind and seismic, and an equivalent fluid weight (triangular distribution) of 260 pcf for sustained loads. The upper foot of soil should be ignored unless confined by a slab or pavement. Allowable frictional resistance along the base of the footings should be calculated based on parameters provided by the design-build ground

improvement contractor. For preliminary design, frictional resistance should be computed using a base friction coefficient of 0.35; this value includes an approximate factor of safety of 1.5. The passive pressure and frictional resistance values include a factor of safety of at least 1.5 and may be used in combination without reduction.

Footing excavations should be free of standing water, debris, and disturbed materials prior to placing concrete. The bottoms and sides of the footing excavations should be moistened following excavation and maintained in a moist condition until concrete is placed. We should check footing excavations prior to placement of reinforcing steel.

8.3 Floor Slabs

Slab-on-grade floors may be used for the proposed structures; however, the floor slab may settle differentially up to 1-1/2 inches relative to the footings following a major earthquake. If the potential for this differential settlement is not acceptable, the floor slabs should either be designed to span between footings/grade beams or supported on improved soil. As discussed in Section 8.1, the slab-on-grade floors for the building should be underlain by at least 12 inches of non-expansive soil consisting of either on-site low-plasticity soil or select fill. The capillary break material discussed below should not be counted as part of the non-expansive soil.

To reduce water vapor transmission through the floor slab, we recommend installing a capillary moisture break and water vapor retarder beneath the slab. A capillary moisture break and vapor retarder are generally not required below parking slabs because there is sufficient air circulation to limit condensation of moisture on the slab surface. Where a capillary moisture break/vapor retarder is not used, we recommend six inches of Class 2 aggregate base compacted to at least 95 percent relative compaction be placed beneath the parking garage slab.

A capillary moisture break consists of at least four inches of clean, free-draining gravel or crushed rock. The vapor retarder should meet the requirements for Class B vapor retarders stated in ASTM E1745. The vapor retarder should be placed in accordance with the requirements of

ASTM E1643. These requirements include overlapping seams by six inches, taping seams, and sealing penetrations in the vapor retarder.

If required by the structural engineer, the vapor retarder may be covered with two inches of sand to aid in curing the concrete and to protect the vapor retarder during slab construction. The sand overlying the vapor retarder should be moist at the time concrete is placed. However, excess water trapped in the sand could eventually be transmitted as vapor through the slab. Therefore, if rain is forecast prior to pouring the slab, the sand should be covered with plastic sheeting to avoid wetting. If the sand becomes wet, concrete should not be placed until the sand has been dried or replaced. The particle size of the capillary break material and sand (if used) should meet the gradation requirements presented in Table 5.

TABLE 5
Gradation Requirements for Capillary Moisture Break

Sieve Size	Percentage Passing Sieve
Gravel or Crushed Rock	
1 inch	90 – 100
3/4 inch	30 – 100
1/2 inch	5 – 25
3/8 inch	0 – 6
Sand	
No. 4	100
No. 200	0 – 5

Concrete mixes with high water/cement (w/c) ratios result in excess water in the concrete, which increases the cure time and results in excessive vapor transmission through the slab. Therefore, concrete for the floor slab should have a low w/c ratio - less than 0.50. If the concrete is poured directly over the vapor retarder, we recommend the w/c ratio of the concrete not exceed 0.45. In either case, water should not be added to the concrete mix in the field. If necessary, workability should be increased by adding plasticizers. In addition, the slab should be properly cured.

Before the floor covering is placed, the contractor should check that the concrete surface and the moisture emission levels (if emission testing is required) meet the manufacturer's requirements.

8.4 Permanent Below-Grade Walls

Below-grade walls, if any, should be designed to resist static lateral earth pressures, lateral pressures caused by earthquakes, vehicular surcharge pressures, and surcharges from adjacent foundations, where appropriate. We recommend below-grade walls at the site be designed for the more critical of the following criteria:

- At-rest equivalent fluid weight of 60 pcf above the design groundwater table and 90 pcf below.
- Active pressure of 40 pcf plus a seismic increment of 20 pcf (triangular distribution) above the design groundwater level, and 80 pcf plus a seismic increment of 10 pcf (triangular distribution) below the groundwater level.

The recommended lateral earth pressures above are based on a level backfill condition with no additional surcharge loads. Where the below-grade wall is subject to traffic loading within 10 feet of the wall, an additional uniform lateral pressure of 100 psf, applied to the upper 10 feet of the wall, should be used.

To protect against moisture migration, below-grade walls should be waterproofed and water stops should be placed at all construction joints. The design pressures recommended for above the design water level are based on fully drained walls. Although part of the below-grade walls will be above the groundwater level, water can accumulate behind the walls from other sources, such as rainfall, irrigation, and broken water lines, etc. One acceptable method for backdraining a below-grade wall is to place a prefabricated drainage panel against the back of the wall. The drainage panel should extend down to a perforated PVC collector pipe at the design high groundwater level (or higher if allowed by the structural engineer). The pipe should be surrounded on all sides by at least four inches of Caltrans Class 2 permeable material or 3/4-inch drain rock wrapped in filter fabric (Mirafi NC or equivalent). A proprietary, prefabricated collector drain system, such as Tremdrain Total Drain or Hydroduct Coil (or equivalent), designed to work in conjunction with the drainage panel may be used in lieu of the perforated

pipe surrounded by gravel described above. The pipe should be connected to a suitable discharge point; a sump and pump system may be required to drain the collector pipes.

If backfill is required behind below-grade walls prior to pouring the building slabs, the walls should be braced, or hand compaction equipment used, to prevent unacceptable surcharges on walls (as determined by the structural engineer).

8.5 Flexible and Rigid Pavement Design

Design recommendations for asphalt concrete and Portland cement concrete pavements are presented in the following sections.

8.5.1 Flexible (Asphalt Concrete) Pavement Design

The State of California flexible pavement design method was used to develop the recommended asphalt concrete (AC) pavement sections. On the basis of our experience, we selected an R-value of 5, which is appropriate for highly expansive clay soils. Recommended pavement sections for traffic indices (TIs) ranging from 4.5 to 7.5 are presented in Table 6. The Civil Engineer for the project should check that the TI's presented in this report are appropriate for the intended use. We can provide additional pavement sections for different TIs upon request.

TABLE 6
AC Pavement Sections

Traffic Index	Asphaltic Concrete (inches)	Class 2 Aggregate Base R = 78 (inches)
4.5	2.5	9.5
5.0	3.0	10.0
5.5	3.0	12.0
6.0	3.5	13.0
6.5	4.0	13.5
7.0	4.0	15.5
7.5	4.5	16.5

The upper 12 inches of the subgrade should be moisture-conditioned and compacted in accordance with requirements presented in Section 8.1. The aggregate base should be moisture-conditioned to near optimum and compacted to at least 95 percent relative compaction and be non-yielding.

If pavements are adjacent to irrigated landscaped areas (including infiltration basins), curbs adjacent to those areas should extend through the aggregate base and at least three inches into the underlying soil to reduce the potential for irrigation water to infiltrate into the pavement section. If drip irrigation is used in the landscaping adjacent to the pavement, however, the deepened curb is not required.

8.5.2 Rigid (Portland Cement Concrete) Pavement

Concrete pavement design is based on a maximum single-axle load of 20,000 pounds and a maximum tandem axle load of 32,000 pounds and moderate truck traffic (i.e., several garbage trucks per week). The recommended rigid pavement section for these axle loads is 6.5 inches of Portland cement concrete over six inches of Class 2 aggregate base. For areas that will receive fire truck traffic, the pavement section should consist of seven inches of Portland cement concrete over six inches of Class 2 aggregate base.

The modulus of rupture and unconfined compressive strength of the concrete should be at least 500 and 3,200 pounds per square inch (psi) at 28 days, respectively. Contraction joints should be placed at maximum spacing of 15-foot spacing. Where the outer edge of a concrete pavement meets asphalt pavement, concrete pavement, or interlocking concrete pavers, the concrete slab should be thickened by 50 percent at a taper not to exceed a slope of 1 in 10. Dowelling is not required where new pavement abuts existing pavement. Concrete slabs subject to vehicular traffic should be reinforced with a minimum of No. 4 bars at 16-inch spacing on center in both directions.

The soil subgrade beneath Portland cement concrete pavements should be prepared and compacted in accordance with the recommendations presented in Section 8.1. In addition, the subgrade should be a firm and non-yielding surface. The subgrade should be proof-rolled to confirm it is non-yielding prior to placing the aggregate base under the direction of our field engineer. The Class 2 aggregate base should be moisture-conditioned to near optimum moisture content and compacted to at least 95 percent relative compaction.

8.6 Pavers

8.6.1 Non-Permeable Concrete Pavers

Non-permeable concrete pavers for pedestrian traffic should be underlain by at least 6 inches of select fill or lime-treated on-site soil and compacted to at least 90 percent relative compaction. The soil subgrade beneath pavers should be scarified to a depth of at least eight inches, moisture-conditioned and compacted in accordance with the compaction requirements in Table 4.

Where concrete pavers will be subject to vehicular traffic, we recommend they consist of fully dentated, interlocking shapes and be at least 80 millimeters (3.15 inches) thick. The pavers should be placed on a 1- to 2-inch-thick sand leveling course underlain by at least 12 inches of Class 2 aggregate base. The subgrade and aggregate base should be compacted in accordance with the recommendations for PCC pavement in Section 8.5.2.

8.6.2 Permeable Concrete Pavers

We recommend permeable interlocking concrete pavements (ICP) be designed in accordance with the guidelines presented by the Interlocking Concrete Pavement Institute (ICPI 2005). These guidelines include specific recommendations for permeable aggregate subbase, base, and bedding courses to be placed beneath ICP pavements. We recommend permeable pavements for both vehicular and pedestrian traffic be designed for **no exfiltration** of water into the subgrade soil. This requires installing a subdrain system at the base of the pervious aggregate materials, which are underlain by an impermeable liner. ICPI's generalized paver section for no exfiltration is presented Figure 6.

The soil subgrade beneath ICP pavements should be prepared and compacted in accordance with the recommendations presented in Section 8.1. In addition, the subgrade should be a firm and non-yielding surface. The subgrade should be proof-rolled under the observation of our field engineer to confirm it is non-yielding prior to placing the impermeable membrane and aggregate base materials. The soil subgrade at the bottom of the permeable section should slope down toward the drain pipe trench at a gradient of at least two percent. The perforated pipe should slope down to a suitable outlet at a minimum gradient of one percent. The pipe should be placed with the perforations down on a minimum of two inches of permeable subbase.

ICPI's guidelines call for 1-1/2 to 2 inches of bedding material consisting of ASTM No. 8 aggregate directly below the pavers. This material is also recommended for fill material between the pavers. As shown in Table 7 below, this material consists of fine gravel with 10 to 30 percent sand.

TABLE 7
Gradation Requirements for ASTM No. 8 Aggregate

Sieve Size	Percentage Passing Sieve
1/2 inch	100
3/8 inch	85 – 100
No. 4	10 – 30
No. 8	0 – 10
No. 16	0 – 5

The ASTM No. 8 bedding should be underlain by a permeable base course of ASTM No. 57 crushed aggregate. As shown in Table 8, ASTM No. 57 aggregate consists of open-graded gravel with a gradation between that of the 3/4-inch drain rock and the ASTM No. 8 aggregate.

TABLE 8
Gradation Requirements for ASTM No. 57 Aggregate

Sieve Size	Percentage Passing Sieve
1-1/2 inch	100
1 inch	95 – 100
1/2 inch	25 – 60
No. 4	0 – 10
No. 8	0 – 5

The ASTM No. 57 permeable base course should be underlain by a permeable subbase course of ASTM No. 2 crushed aggregate. The gradation requirements for ASTM No. 2 crushed aggregate subbase are presented in Table 9.

TABLE 9
Gradation Requirements for ASTM No. 2 Aggregate

Sieve Size	Percentage Passing Sieve
3 inch	100
2-1/2 inch	90-100
2 inch	35-70
1-1/2 inch	0-15
3/4 inch	0 -5

The No. 2 aggregate subbase course should be placed in lifts not exceeding 6 inches in loose thickness and compacted using a smooth-drum roller that weighs a minimum of 10 tons, operated in static (non-vibratory) mode. The subsequent course of No. 57 aggregate may be placed in one lift and should be compacted with a smooth-drum roller in vibratory mode with sufficient passes to create an unyielding surface. Placement and compaction of the permeable aggregate base and subbase should be performed under the observation of our field engineer. Following compaction of the No. 57 aggregate, the No. 8 bedding, not exceeding 2 inches in loose thickness, should be placed and spread to a level, undisturbed surface immediately prior to paver installation.

The required thicknesses of the permeable aggregate base and subbase courses depends on the infiltration and water storage design requirements, as well as the traffic loading demand. Our recommendations for the minimum permeable ICP pavement section for pedestrian traffic and vehicular traffic (including fire and garbage trucks) are presented in Table 10.

TABLE 10
Recommended Pavement Sections for
Permeable Interlocking Concrete Pavers

Pavement Type	ASTM No. 8 Bedding Aggregate (inches)	ASTM No. 57 Stone Base (inches)	ASTM No. 2 Stone Subbase (inches)
Pedestrian	1.5-2.0	4.0	6.0
Vehicular	1.5-2.0	4.0	10.0

The above recommended ICP pavement sections are based on the ICPI technical guidelines (ICPI 2005). From a geotechnical standpoint, it is acceptable to design the pedestrian ICP section to exclude the No. 2 subbase course, in which case the No. 57 base course should be increased to 10 inches. If this approach is used, the perforated pipe should include a filter fabric sleeve to prevent the finer aggregate from entering the perforations.

8.7 Seismic Design

We understand the proposed new buildings will be designed using the seismic provisions in the 2016 California Building Code (CBC). Although the CBC calls for a Site Class F designation for sites underlain by potentially liquefiable soil, we conclude a Site Class D designation is more appropriate because: 1) the potentially liquefiable layers are relatively thin and discontinuous, and 2) the proposed ground improvement system should be designed to sufficiently reduce liquefaction potential; therefore, the site will not incur significant nonlinear behavior during strong ground shaking.

The latitude and longitude of the site are 37.4094° and -122.0768°, respectively. Hence, in accordance with the 2016 CBC, we recommend the following:

- S_S = 1.50 g, S_1 = 0.60 g
- S_{MS} = 1.50 g, S_{M1} = 0.90 g
- S_{DS} = 1.00 g, S_{D1} = 0.60 g
- PGA_M = 0.53g

- Seismic Design Category D for Risk Categories I, II, and III.

9.0 GEOTECHNICAL SERVICES DURING CONSTRUCTION

Prior to construction, Rockridge Geotechnical should review the project plans and specifications to verify that they conform to the intent of our recommendations. During construction, our field engineer should provide on-site observation and testing during placement and compaction of fill, ground improvement, and installation of foundations. These observations will allow us to compare actual with anticipated soil conditions and to verify that the contractor's work conforms to the geotechnical aspects of the plans and specifications.

10.0 LIMITATIONS

This geotechnical investigation has been conducted in accordance with the standard of care commonly used as state-of-practice in the profession. No other warranties are either expressed or implied. The recommendations made in this report are based on the assumption that the subsurface conditions do not deviate appreciably from those disclosed in the exploratory borings and CPTs. If any variations or undesirable conditions are encountered during construction, we should be notified so that additional recommendations can be made. The foundation recommendations presented in this report are developed exclusively for the proposed development described in this report and are not valid for other locations and construction in the project vicinity.

REFERENCES

2016 California Building Code (CBC).

Boulanger, R.W and Idriss, I.M. (2014), "CPT and SPT Based Liquefaction Triggering Procedures", Center for Geotechnical Modeling, Department of Civil and Environmental Engineering, University of California, Davis, Report No. UCD/CGM-14/01, April.

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Jennings, C.W. (1994). Fault Activity Map of California and Adjacent Areas with Locations and Ages of Recent Volcanic Eruptions: California Division of Mines and Geology Geologic Data Map No. 6, scale 1: 750,000.

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ROCKRIDGE GEOTECHNICAL

FIGURES



Base map: The Thomas Guide
Santa Clara County
2002

0 1/4 1/2 Mile

Approximate scale

1001 NORTH SHORELINE BOULEVARD
Mountain View, California

SITE LOCATION MAP

ROCKRIDGE GEOTECHNICAL

Date 10/01/17	Project No. 17-1382	Figure 1



EXPLANATION

- CPT-1 — Approximate location of cone penetration test by Rockridge Geotechnical Inc., September 2017
- RG-CPT-1 — Approximate location of cone penetration test by Rockridge Geotechnical Inc., March 28, 2017
- CPT-1 — Approximate location of cone penetration test by Cornerstone Earth Group, April 12, 2014
- B-1 — Approximate location of boring by Rockridge Geotechnical Inc., September 2017
- EB-1 — Approximate location of boring by Cornerstone Earth Group, April 12, 2014
- Project limits

N

0 100 Feet

Approximate scale

Reference: Base map from a drawing titled "Architectural Site Plan", by Studio T Square Architecture, dated May 31, 2017.

1001 NORTH SHORELINE BOULEVARD
Mountain View, California

SITE PLAN

Date 10/10/17	Project No. 17-1382	Figure 2

ROCKRIDGE GEOTECHNICAL



Base map: Google Earth with U.S. Geological Survey (USGS), Santa Clara County, 2016.

EXPLANATION

af	Artificial Fill
Qha	Alluvium (Holocene)
Qpa	Alluvium (Pleistocene)
	Geologic contact: dashed where approximate and dotted where concealed, queried where uncertin

N

0 1,000 2,000 Feet

Approximate Scale

1001 NORTH SHORELINE BOULEVARD
Mountain View, California

REGIONAL GEOLOGIC MAP

ROCKRIDGE GEOTECHNICAL

Date 10/10/17 | Project No. 17-1382 | Figure 3

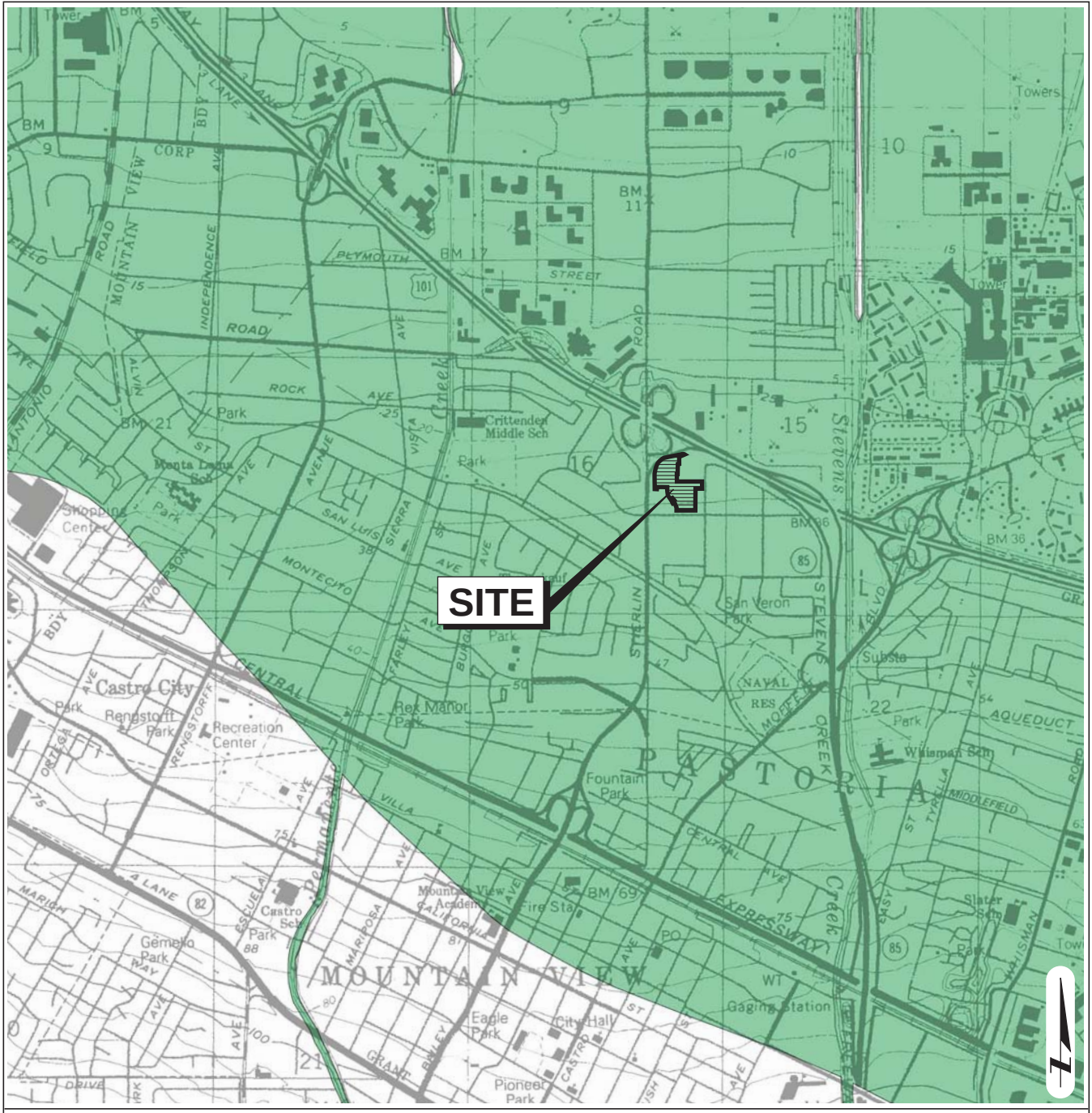


1001 NORTH SHORELINE BOULEVARD
Mountain View, California

REGIONAL FAULT MAP

ROCKRIDGE GEOTECHNICAL

Date 10/01/17	Project No. 17-1382	Figure 4



EXPLANATION

Liquefaction; Areas where historic occurence of liquefaction, or local topographic, geological, geotechnical, and subsurface water conditions indicate a potential for permanent ground displacements.

Earthquake-Induced Landslides; Areas where previous occurence of landslide movement, or local topographic, geological, geotechnical, and subsurface water conditions indicate a potential for permanent ground displacements.

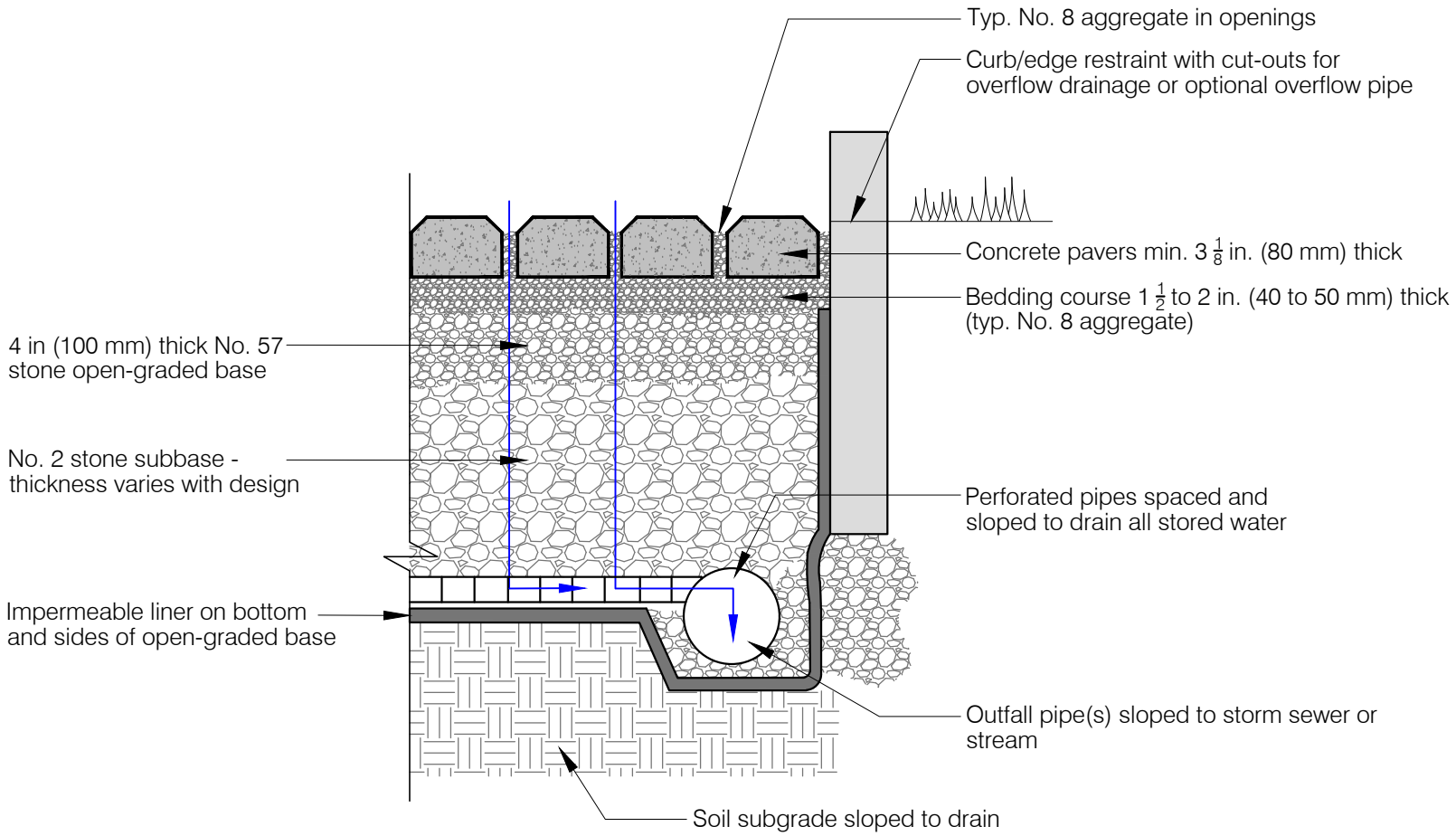
Reference:
State of California "Seismic Hazard Zones"
Mountain View Quadrangle.
Released on October 18, 2006

1001 NORTH SHORELINE BOULEVARD
Mountain View, California

SEISMIC HAZARDS ZONE MAP

ROCKRIDGE GEOTECHNICAL

Date 10/01/17	Project No. 17-1382	Figure 5



Reference: "Permeable Interlocking Concrete Pavements", Third Edition, prepared by Interlocking Concrete Pavement Institute, dated 2005.

1001 NORTH SHORELINE BOULEVARD
Mountain View, California

ROCKRIDGE GEOTECHNICAL

GENERALIZED ICPI PERMEABLE PAVER DETAIL FOR NO EXFILTRATION

Date 11/15/17	Project No. 17-1382	Figure 6

ROCKRIDGE GEOTECHNICAL

APPENDIX A

Boring Logs and Cone Penetration Test Results

PROJECT: **1001 NORTH SHORELINE BOULEVARD**
Mountain View, California

Log of Boring B-1

Boring location: See Site Plan, Figure 2 | Logged by: T. Williams

Date started: 9/18/17 | Date finished: 9/18/17

Drilling method: Rotary Wash

Hammer weight/drop: 140 lbs./30 inches | Hammer type: Automatic Hammer

Sampler: Sprague & Henwood (S&H), Standard Penetration Test (SPT), Pitcher Barrel (PB)

DEPTH (feet)	Sampler Type	Sample	Blows/ 6"	SPT N-Value[1]	LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
						3.5-3.75 inches of asphalt concrete						
1						7.5 inches of aggregate base						
2					CH	SANDY CLAY (CH) dark brown, dry to moist, hard, trace gravel LL = 55, PI = 33; see Appendix B					20.8	103
3	S&H		6 13 16	31								
4						CLAYEY GRAVEL with SAND (GC) olive-brown, dense, dry						
5	SPT		4 4 4	10	GC	loose to medium dense, increase in clay content LL = 64, PI = 41; see Appendix B Particle Size Distribution; see Appendix B				16.1	7.0	
6												
7	S&H		5 9 15	19		CLAY with SAND (CL) olive-gray, very stiff, moist, trace rootlets						
8												
9	S&H		4 9 10	15		dark gray, stiff to very stiff						
10					CL							
11	S&H		2 4 5	7		increase in sand content, medium stiff LL = 48, PI = 32; see Appendix B Particle Size Distribution; see Appendix B				70.3	25.9	97
12												
13												
14												
15						SANDY CLAY (CL) gray, medium stiff to stiff, wet						
16	SPT		4 3 4	8								
17					CL	olive-brown, trace gravel						
18												
19												
20						CLAYEY SAND (SC) olive-brown, dense, wet, fine to coarse grained sand, trace gravel						
21	SPT		12 12 14	31								
22					SC							
23												
24												
25						CLAY (CL) olive-gray, stiff, wet, trace gravel						
26	S&H		4 4 7	9								
27					CL							
28												
29												
30												

FILL

LABORATORY TEST DATA

ROCKRIDGE GEOTECHNICAL

Project No.: 17-1382 | Figure: A-1a

PROJECT: **1001 NORTH SHORELINE BOULEVARD**
Mountain View, California

Log of Boring B-1

DEPTH (feet)	SAMPLES: Sampler Type	SAMPLES: Sample	SAMPLES: Blows/ 6"	SAMPLES: SPT N-Value[1]	LITHOLOGY	MATERIAL DESCRIPTION	LABORATORY TEST DATA: Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
31	S&H		5 7 9	13	CL	CLAY (CL) (continued)						
32						SANDY, SILTY CLAY (CL-ML) olive-gray, stiff, wet						
33												
34												
35												
36	S&H		5 7 7	11		LL = 28, PI = 6; see Appendix B				67.3	25.4	104
37												
38					CL-ML							
39												
40												
41	PB					6-inch to 8-inch-thick interbedded layers of CLAYEY SAND with GRAVEL (SC) olive-brown, wet						
42												
43												
44	PB					Consolidation Test; see Appendix B					24.4	100
45												
46												
47												
48												
49												
50												
51												
52												
53												
54												
55												
56												
57												
58												
59												
60												

Boring terminated at a depth of 45 feet below ground surface.
Boring backfilled with cement grout.
Groundwater level obscured by rotary wash drilling method.

[1] S&H & SPT blow counts for the last two increments were converted to SPT N-Values using factors of 0.8 & 1.2 to account for sampler type & approximate hammer energy.

ROCKRIDGE GEOTECHNICAL

Project No.: 17-1382
Figure: A-1b

PROJECT: **1001 NORTH SHORELINE BOULEVARD**
Mountain View, California

Log of Boring B-2

Boring location: See Site Plan, Figure 2 | Logged by: T. Williams

Date started: 9/18/17 | Date finished: 9/18/17

Drilling method: Rotary Wash

Hammer weight/drop: 140 lbs./30 inches | Hammer type: Automatic Hammer

Sampler: Sprague & Henwood (S&H), Standard Penetration Test (SPT), Pitcher Barrel (PB)

DEPTH (feet)	SAMPLES: Sampler Type	SAMPLES: Sample	SAMPLES: Blows/ 6"	SAMPLES: SPT N-Value[1]	LITHOLOGY	MATERIAL DESCRIPTION	LABORATORY TEST DATA: Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
0						4 inches of asphalt concrete						
0.5						6 inches of aggregate base						
1					SC	CLAYEY SAND with GRAVEL (SC) olive-brown, moist						
2						FILL						
3	S&H		5 7 9	13	CH	SANDY CLAY (CH) dark brown, stiff, dry to moist, trace gravel and organics						
4												
5	S&H		4 10 14	19		CLAY with SAND (CL) gray-brown, very stiff, moist to wet						
6												
7	S&H		4 9 12	17								
8												
9	PB				CL	stiff Consolidation Test; see Appendix B TxUU Test; see Appendix B	TxUU PP	950	2,060 2,500		20.5	106
10												
11												
12												
13												
14												
15						CLAYEY GRAVEL with SAND (GC) olive-gray, medium dense, wet LL = 29, PI = 11; see Appendix B Particle Size Distribution; see Appendix B						
16	S&H		10 14 17	25						12.2	8.6	114
17												
18												
19												
20												
21	SPT		17 17 7	29								
22					GC							
23												
24												
25												
26	SPT		13 13 9	26								
27												
28												
29												
30												

ROCKRIDGE GEOTECHNICAL

Project No.: 17-1382 | Figure: A-2a

PROJECT: **1001 NORTH SHORELINE BOULEVARD**
Mountain View, California

Log of Boring B-2

DEPTH (feet)	Sampler Type	Sample	Blows/ 6"	SPT N-Value[1]	LITHOLOGY	MATERIAL DESCRIPTION
31	S&H		14 14 14	22	SC	CLAYEY SAND (SC) gray, medium dense, wet
34					CL	SANDY CLAY (CL) gray-brown, wet
36	PB				SC	CLAYEY SAND with GRAVEL (SC) olive-brown, wet
40					CL	CLAY with SAND (CL) olive-gray, wet, trace gravel
41	PB					
42					CL	SANDY CLAY (CL) olive-brown, stiff, wet
43	S&H		1 5 13	14	SC	CLAYEY SAND (SC) olive-brown, wet
60						

LABORATORY TEST DATA

Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft

Boring terminated at a depth of 44 feet below ground surface.
Boring backfilled with cement grout.
Groundwater level obscured by rotary wash drilling method.

[1] S&H & SPT blow counts for the last two increments were converted to SPT N-Values using factors of 0.8 & 1.2 to account for sampler type & approximate hammer energy.

ROCKRIDGE GEOTECHNICAL

Project No.: 17-1382
Figure: A-2b

UNIFIED SOIL CLASSIFICATION SYSTEM

Major Divisions		Symbols	Typical Names
Coarse-Grained Soils (more than half of soil > no. 200 sieve size)	Gravels (More than half of coarse fraction > no. 4 sieve size)	GW	Well-graded gravels or gravel-sand mixtures, little or no fines
		GP	Poorly-graded gravels or gravel-sand mixtures, little or no fines
		GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
	Sands (More than half of coarse fraction < no. 4 sieve size)	SW	Well-graded sands or gravelly sands, little or no fines
		SP	Poorly-graded sands or gravelly sands, little or no fines
		SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
Fine -Grained Soils (more than half of soil < no. 200 sieve size)	Silts and Clays LL = < 50	ML	Inorganic silts and clayey silts of low plasticity, sandy silts, gravelly silts
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays
		OL	Organic silts and organic silt-clays of low plasticity
	Silts and Clays LL = > 50	MH	Inorganic silts of high plasticity
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic silts and clays of high plasticity
Highly Organic Soils		PT	Peat and other highly organic soils

GRAIN SIZE CHART

Classification	Range of Grain Sizes	
	U.S. Standard Sieve Size	Grain Size in Millimeters
Boulders	Above 12"	Above 305
Cobbles	12" to 3"	305 to 76.2
Gravel coarse fine	3" to No. 4 3" to 3/4" 3/4" to No. 4	76.2 to 4.76 76.2 to 19.1 19.1 to 4.76
Sand coarse medium fine	No. 4 to No. 200 No. 4 to No. 10 No. 10 to No. 40 No. 40 to No. 200	4.76 to 0.075 4.76 to 2.00 2.00 to 0.420 0.420 to 0.075
Silt and Clay	Below No. 200	Below 0.075

Unstabilized groundwater level

Stabilized groundwater level

SAMPLE DESIGNATIONS/SYMBOLS

- Sample taken with Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter. Darkened area indicates soil recovered
- Classification sample taken with Standard Penetration Test sampler
- Undisturbed sample taken with thin-walled tube
- Disturbed sample
- Sampling attempted with no recovery
- Core sample
- Analytical laboratory sample
- Sample taken with Direct Push sampler
- Sonic

SAMPLER TYPE

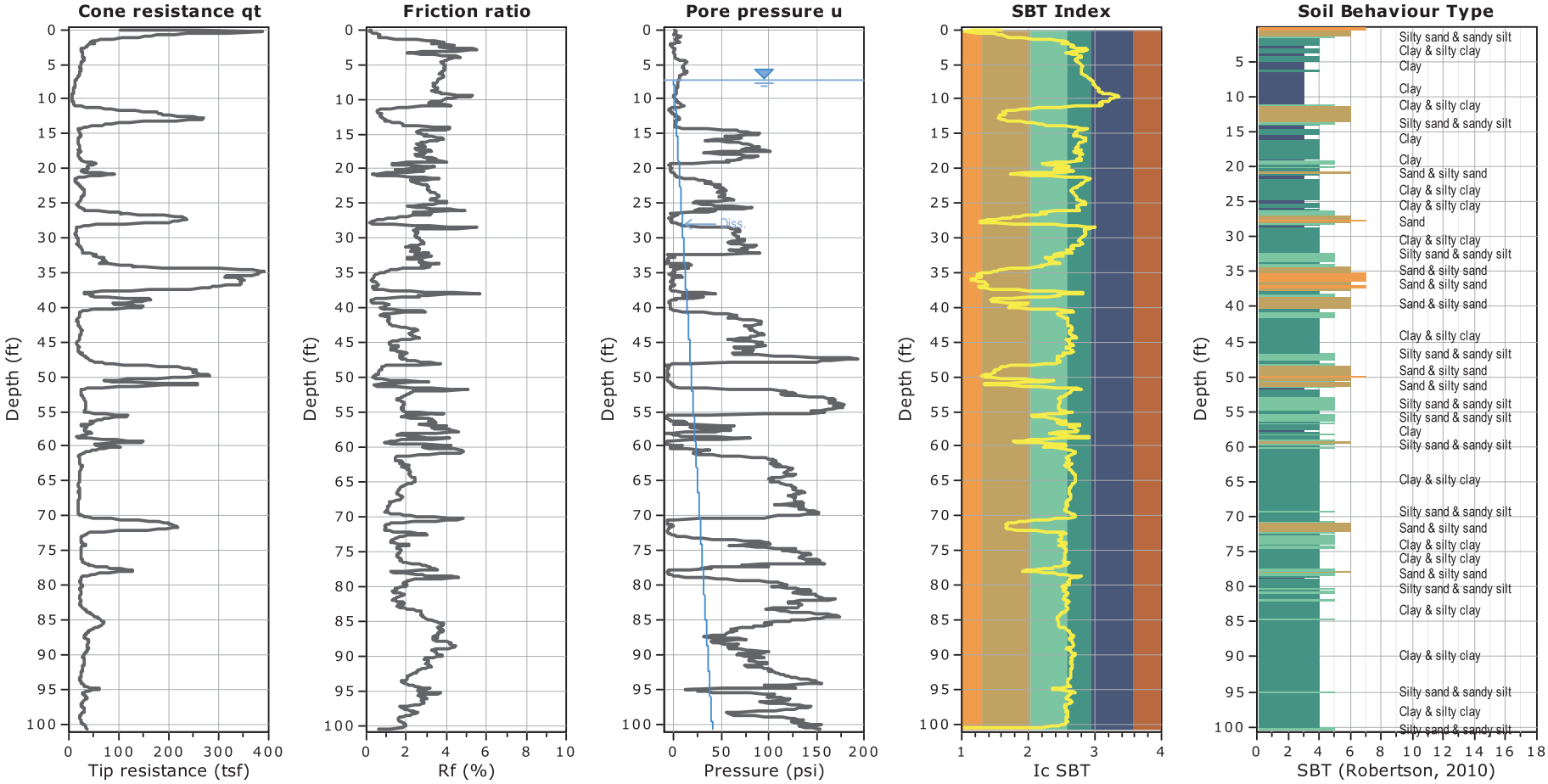
C	Core barrel
CA	California split-barrel sampler with 2.5-inch outside diameter and a 1.93-inch inside diameter
D&M	Dames & Moore piston sampler using 2.5-inch outside diameter, thin-walled tube
O	Osterberg piston sampler using 3.0-inch outside diameter, thin-walled Shelby tube
PT	Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube
S&H	Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter
SPT	Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside diameter and a 1.5-inch inside diameter
ST	Shelby Tube (3.0-inch outside diameter, thin-walled tube) advanced with hydraulic pressure

1001 NORTH SHORELINE BOULEVARD
Mountain View, California

ROCKRIDGE GEOTECHNICAL

CLASSIFICATION CHART

Date 10/01/17 | Project No. 17-1382 | Figure A-3



SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

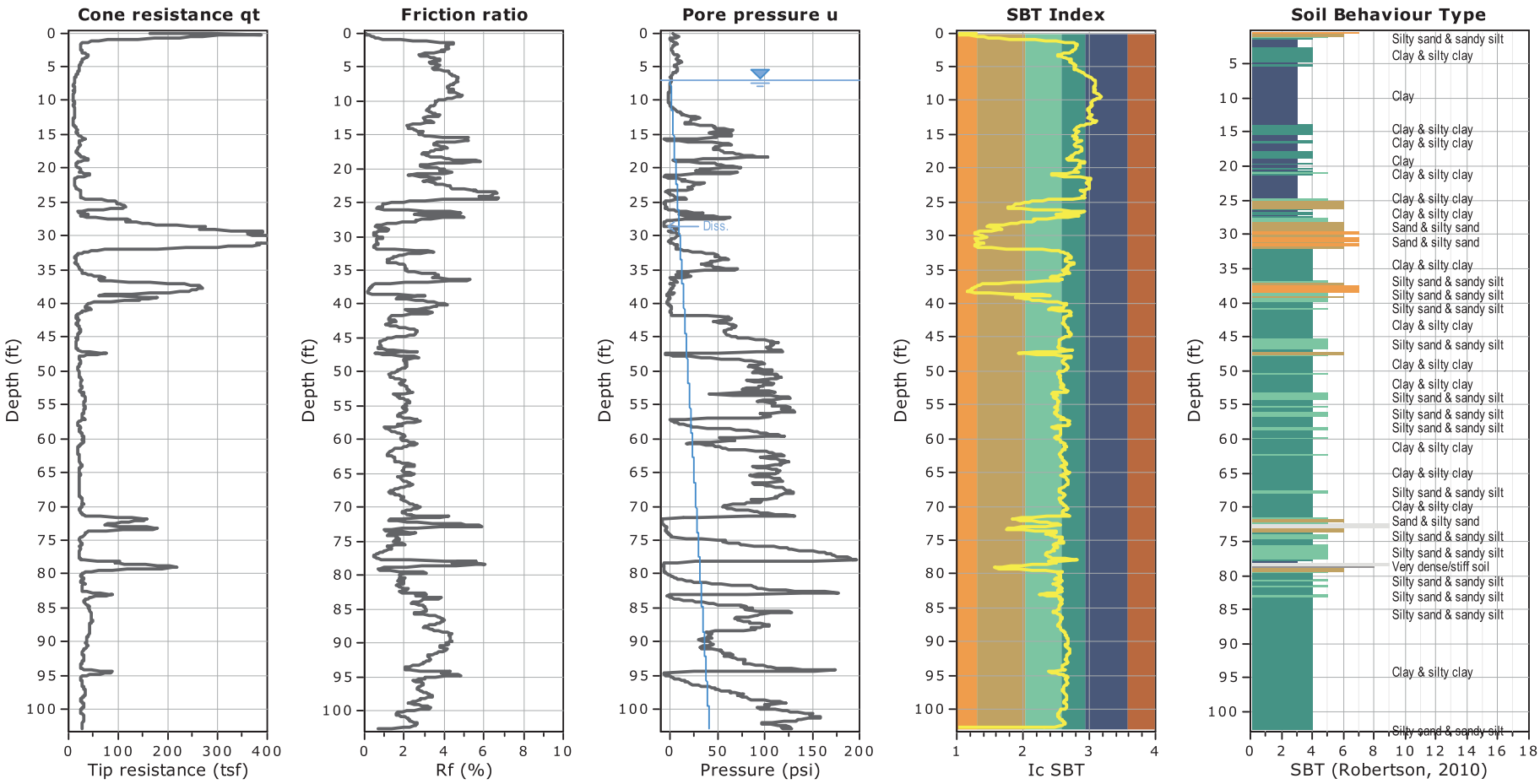
Total depth: 100.72 ft, Date: 9/19/2017
Measured Groundwater Depth: 7.2 feet
Cone Operator: California Push Technologies, Inc.

1001 NORTH SHORELINE BOULEVARD
Mountain View, California

ROCKRIDGE GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-1

Date 10/01/17	Project No. 17-1382	Figure A-4



SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

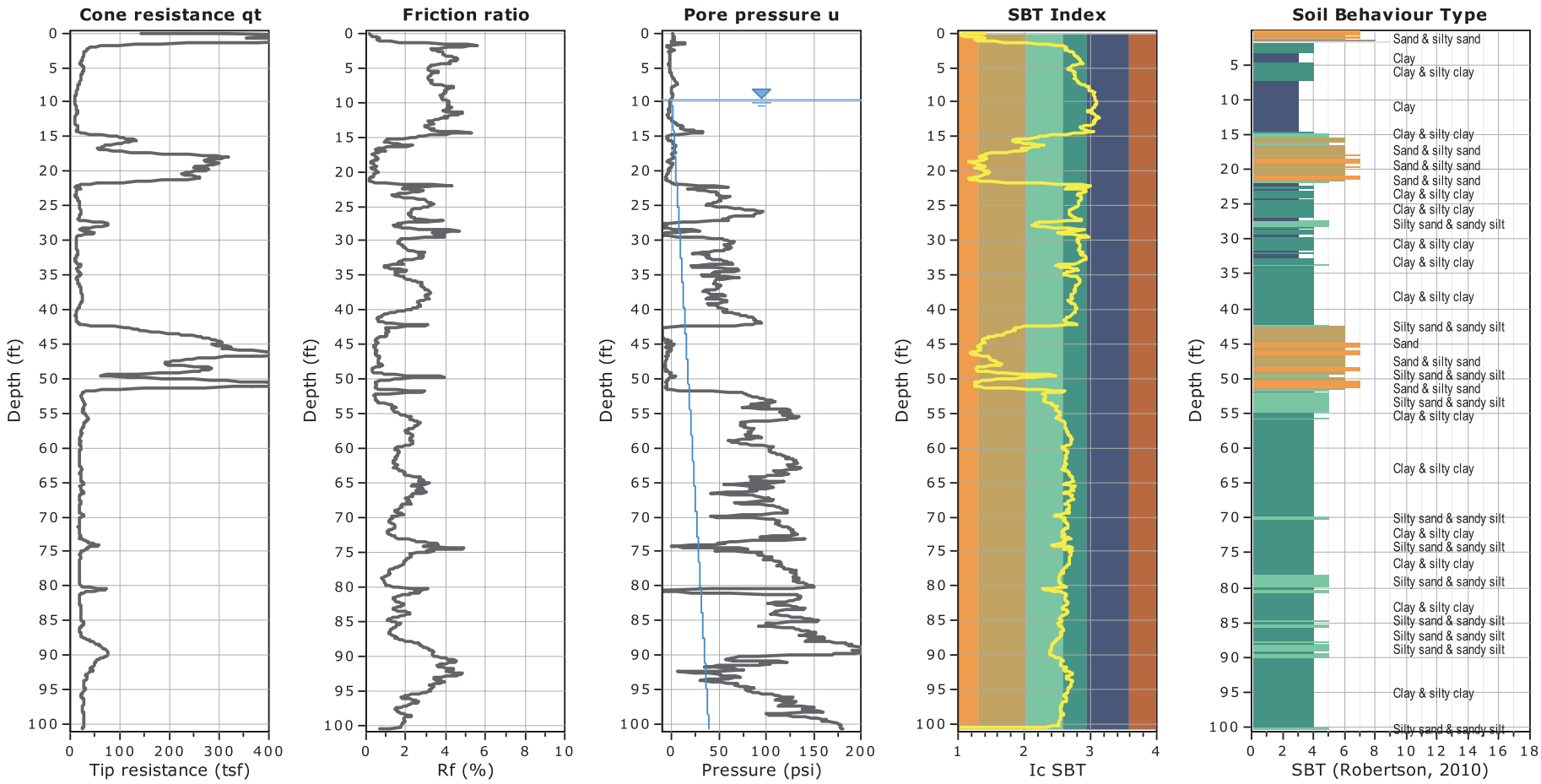
Total depth: 102.85 ft, Date: 9/19/2017
Measured Groundwater Depth: 7.0 feet
Cone Operator: California Push Technologies, Inc.

1001 NORTH SHORELINE BOULEVARD
Mountain View, California

ROCKRIDGE GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-2

Date 10/01/17	Project No. 17-1382	Figure A-5



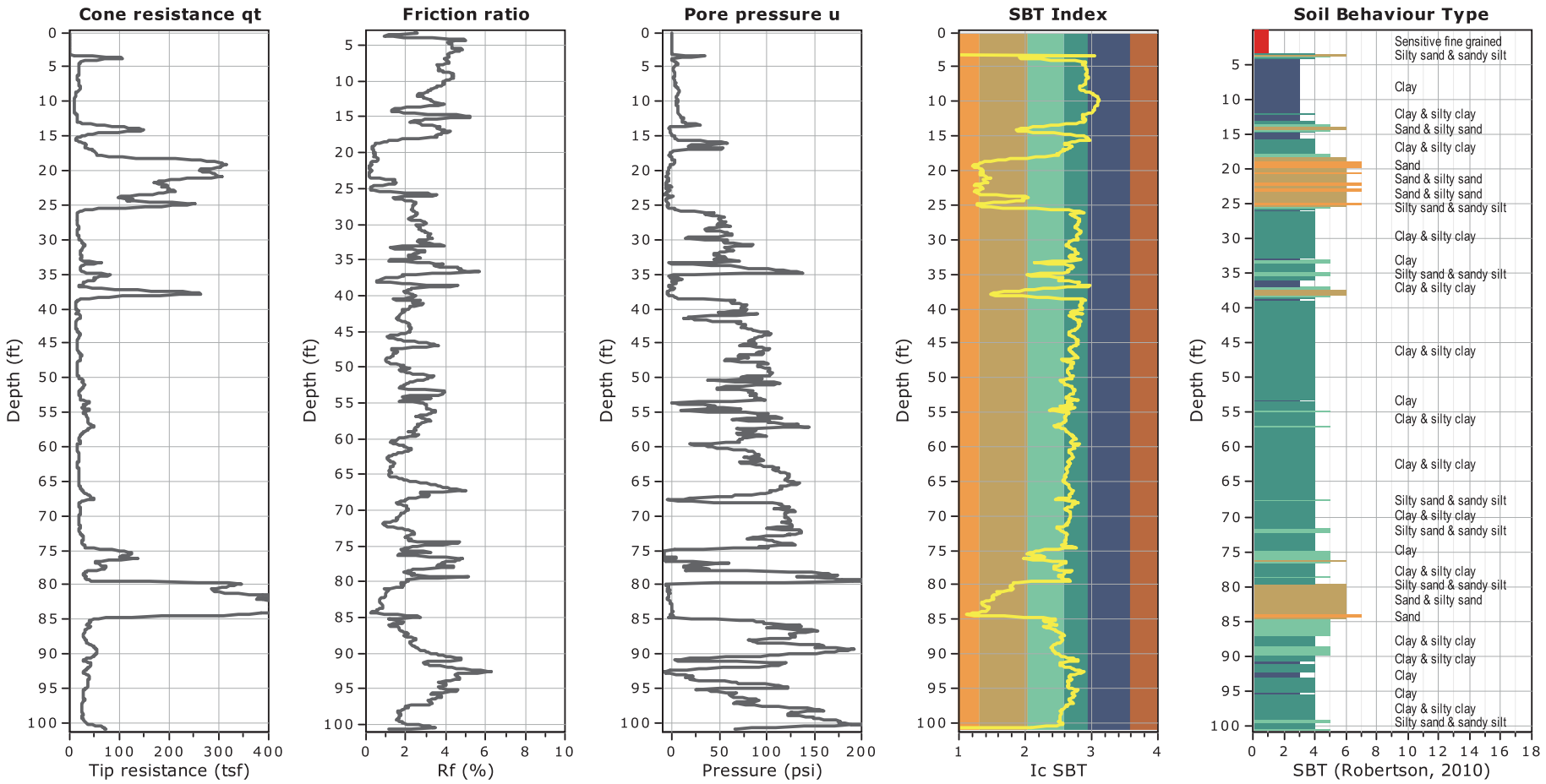
Total depth: 100.64 ft, Date: 9/19/2017
Measured Groundwater Depth: 9.7 feet
Cone Operator: California Push Technologies, Inc.

1001 NORTH SHORELINE BOULEVARD
Mountain View, California

ROCKRIDGE GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-3

Date 10/01/17	Project No. 17-1382	Figure A-6



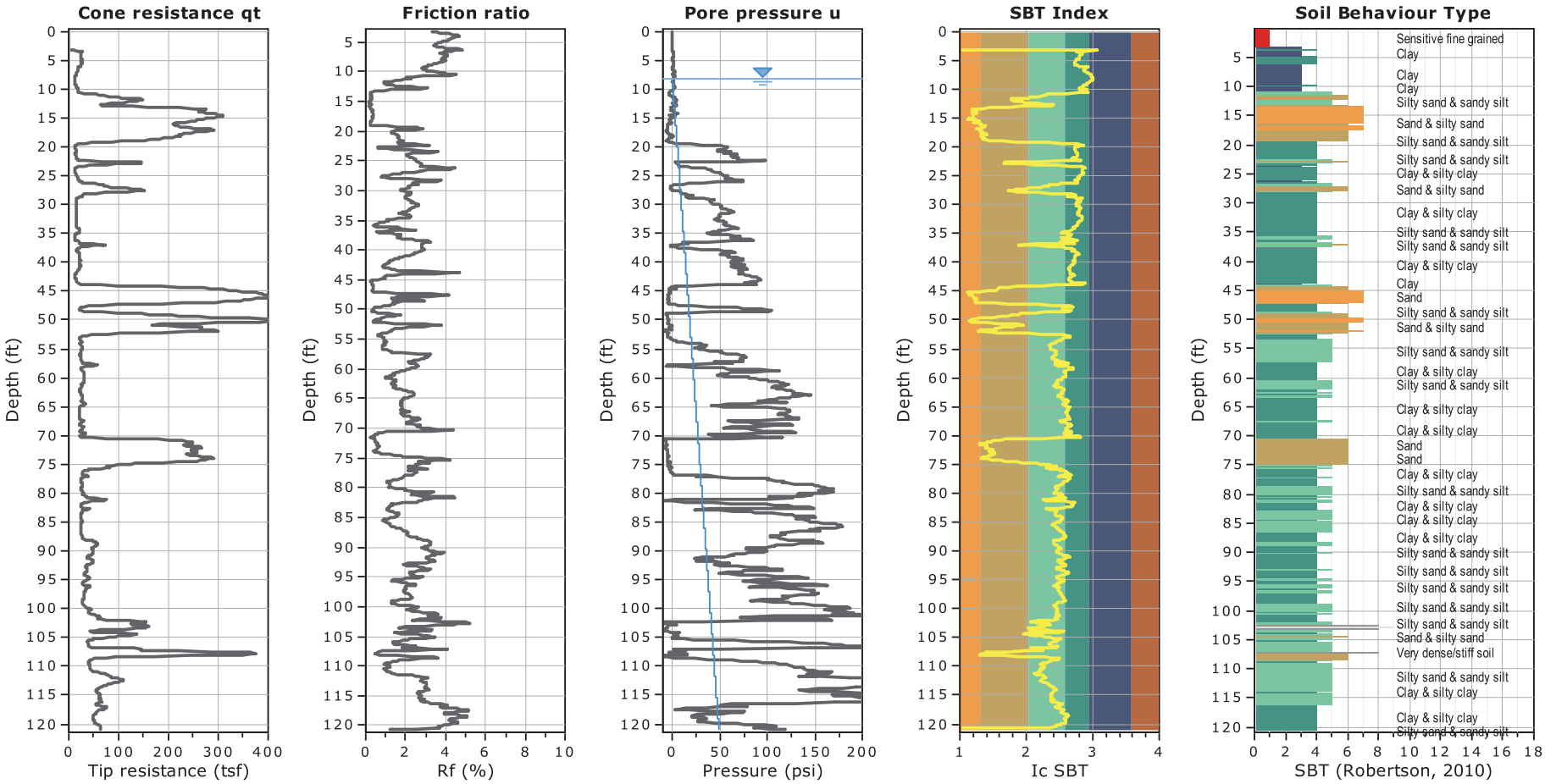
Total depth: 100.89 ft, Date: 9/18/2017
Groundwater Not Measured
Cone Operator: California Push Technologies, Inc.

1001 NORTH SHORELINE BOULEVARD
Mountain View, California

ROCKRIDGE GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-4

Date 10/10/17	Project No. 17-1382	Figure A-7



SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

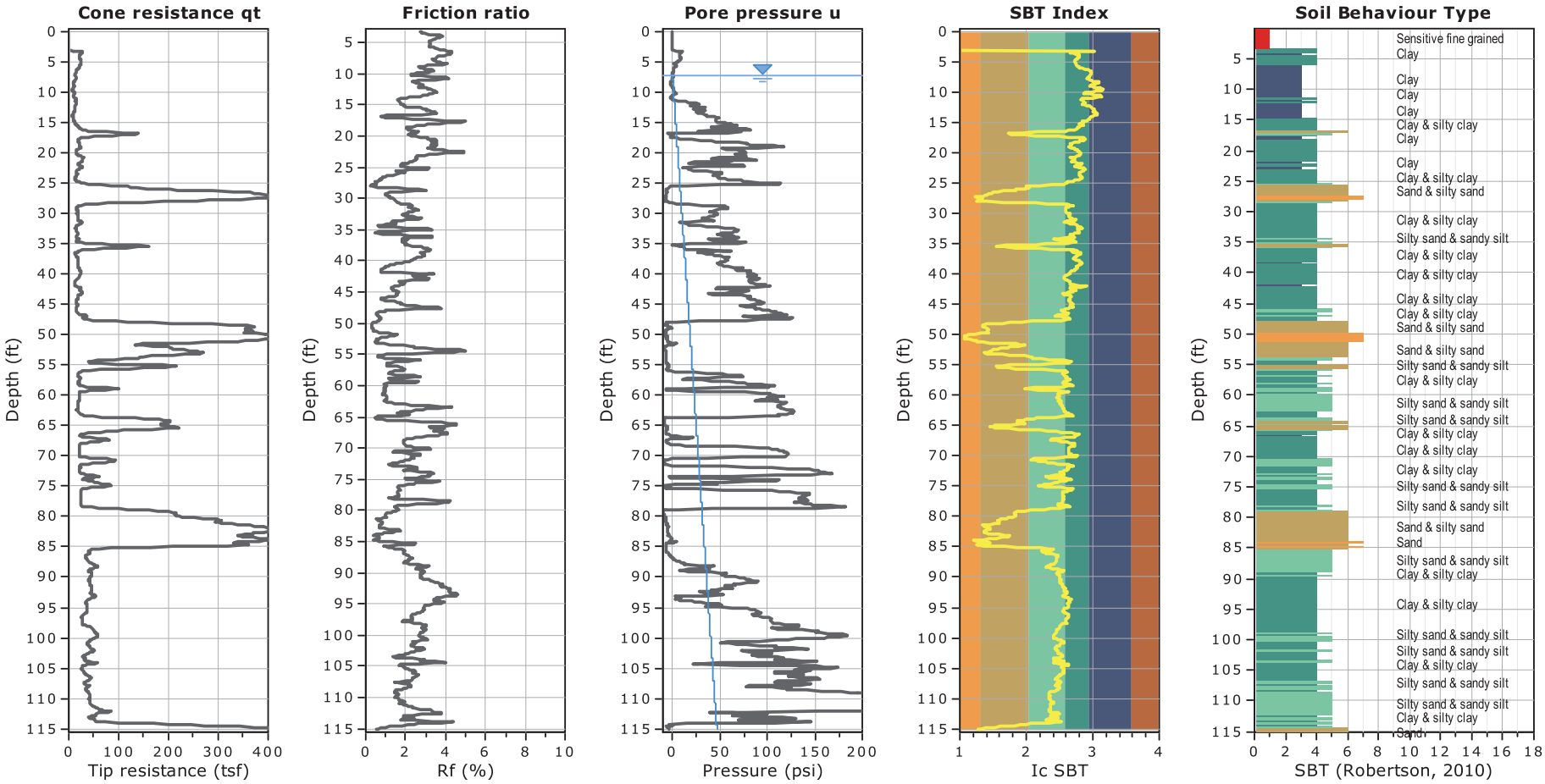
Total depth: 120.90 ft, Date: 9/18/2017
Measured Groundwater Depth: 8.2 feet
Cone Operator: California Push Technologies, Inc.

1001 NORTH SHORELINE BOULEVARD
Mountain View, California

ROCKRIDGE GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-5

Date 10/01/17	Project No. 17-1382	Figure A-8



SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

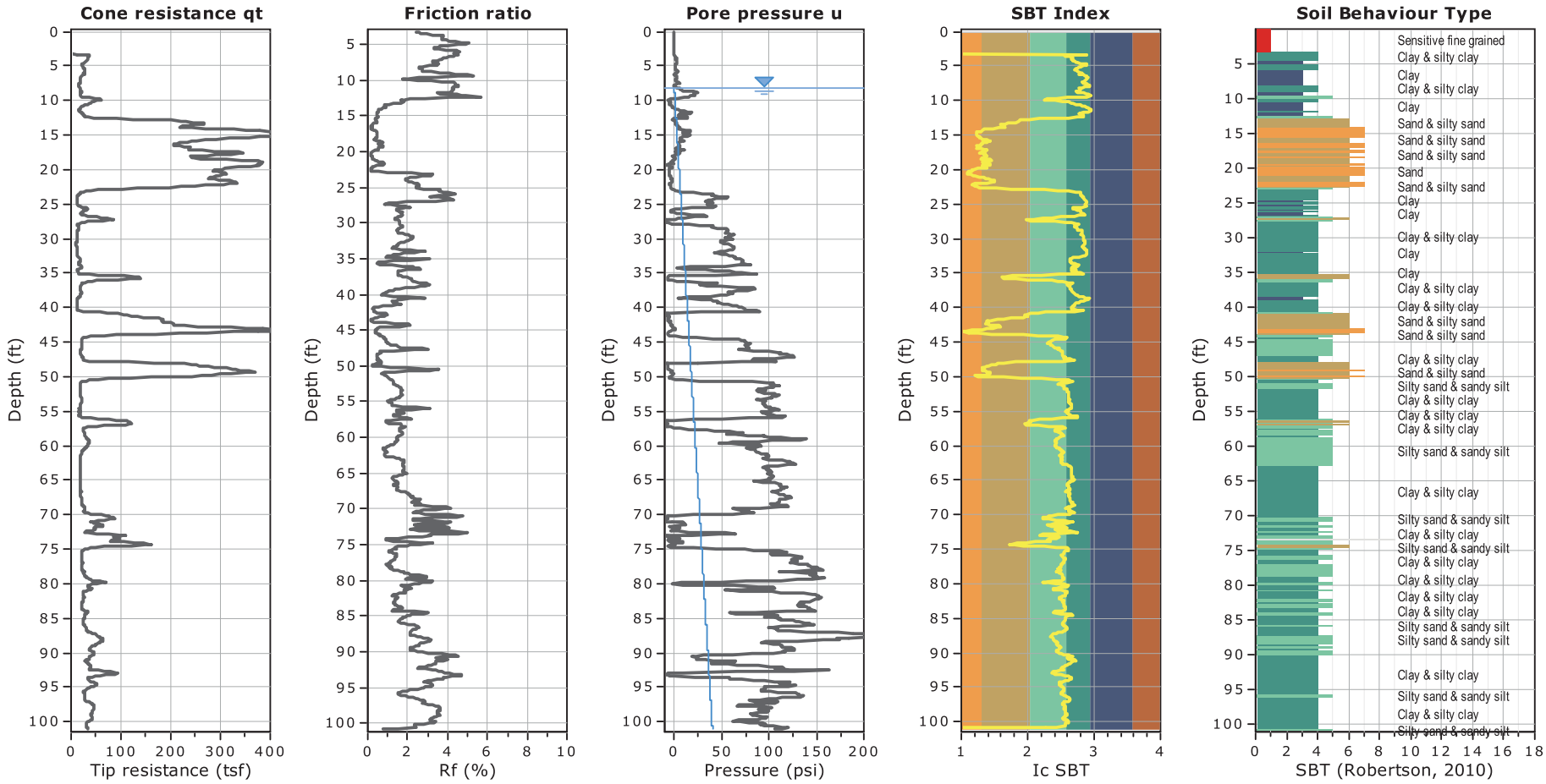
Total depth: 115.08 ft, Date: 9/18/2017
Measured Groundwater Depth: 7.2 feet
Cone Operator: California Push Technologies, Inc.

1001 NORTH SHORELINE BOULEVARD
Mountain View, California

ROCKRIDGE GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-6

Date 10/01/17	Project No. 17-1382	Figure A-9



SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

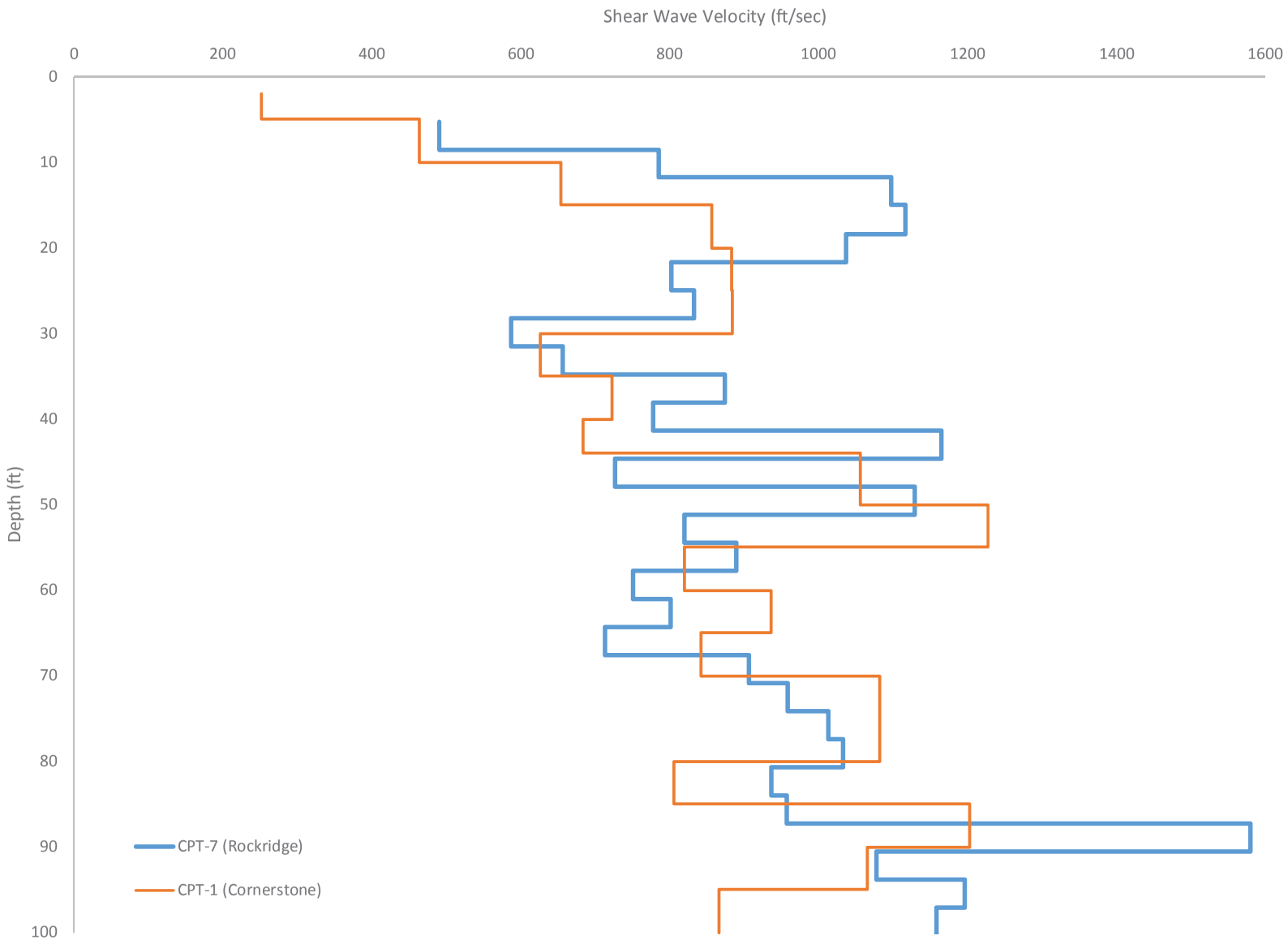
Total depth: 101.05 ft, Date: 9/18/2017
Measured Groundwater Depth: 8.1 feet
Cone Operator: California Push Technologies, Inc.

1001 NORTH SHORELINE BOULEVARD
Mountain View, California

ROCKRIDGE GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-7

Date 10/01/17	Project No. 17-1382	Figure A-10A



1001 NORTH SHORELINE BOULEVARD
Mountain View, California

ROCKRIDGE GEOTECHNICAL

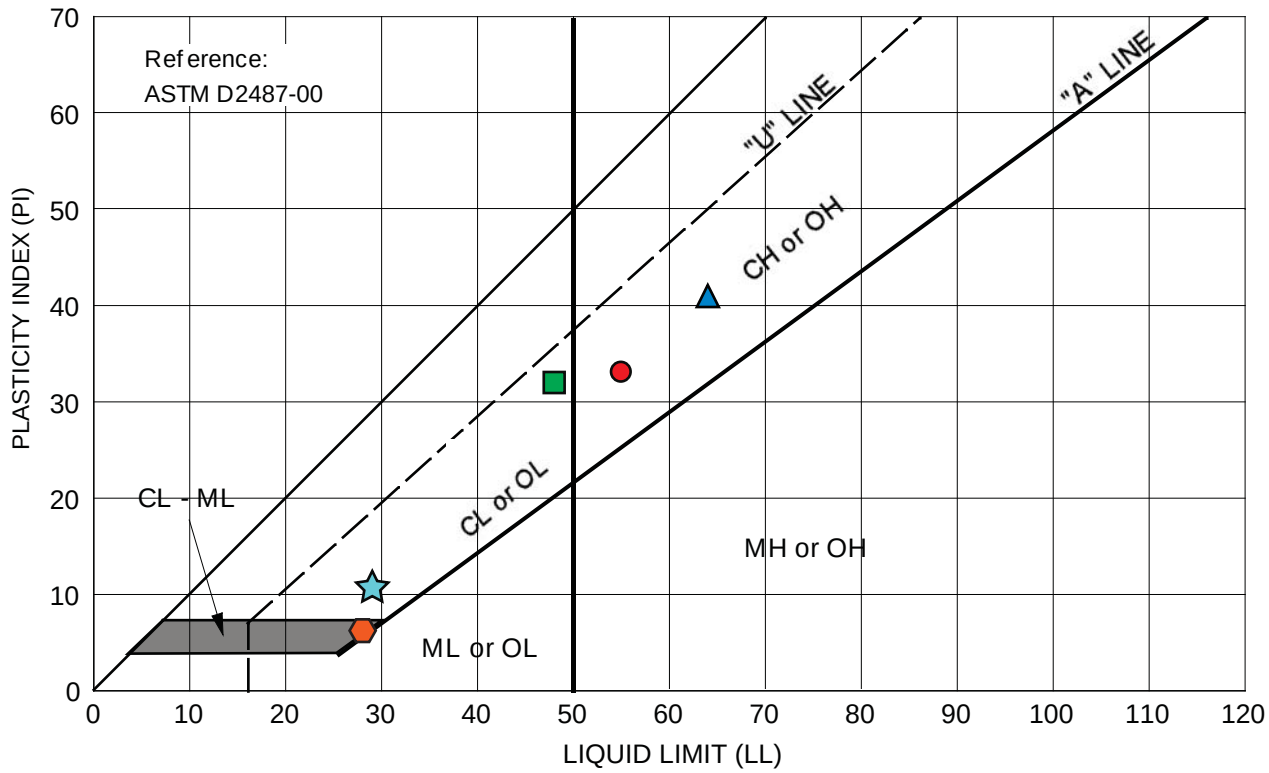
SHEAR WAVE VELOCITY TEST RESULTS

Date 10/10/17	Project No. 17-1382	Figure A-10B

ROCKRIDGE GEOTECHNICAL

APPENDIX B

Laboratory Test Results



Symbol	Source	Description and Classification	Natural M.C. (%)	Liquid Limit (%)	Plasticity Index (%)	% Passing #200 Sieve
●	B-1 at 2.0 feet	SANDY CLAY (CH), dark brown	--	55	33	--
▲	B-1 at 4.0 feet	CLAYEY GRAVEL with SAND (GC), olive-brown	7.0	64	41	16.1
■	B-1 at 11.0 feet	CLAY with SAND (CL), dark gray	25.9	48	32	70.3
⬢	B-1 at 36.0 feet	SANDY, SILTY CLAY (CL-ML), olive-gray	25.4	28	6	67.3
★	B-2 at 15.5 feet	CLAYEY GRAVEL with SAND (GC), olive-gray	8.6	29	11	12.2

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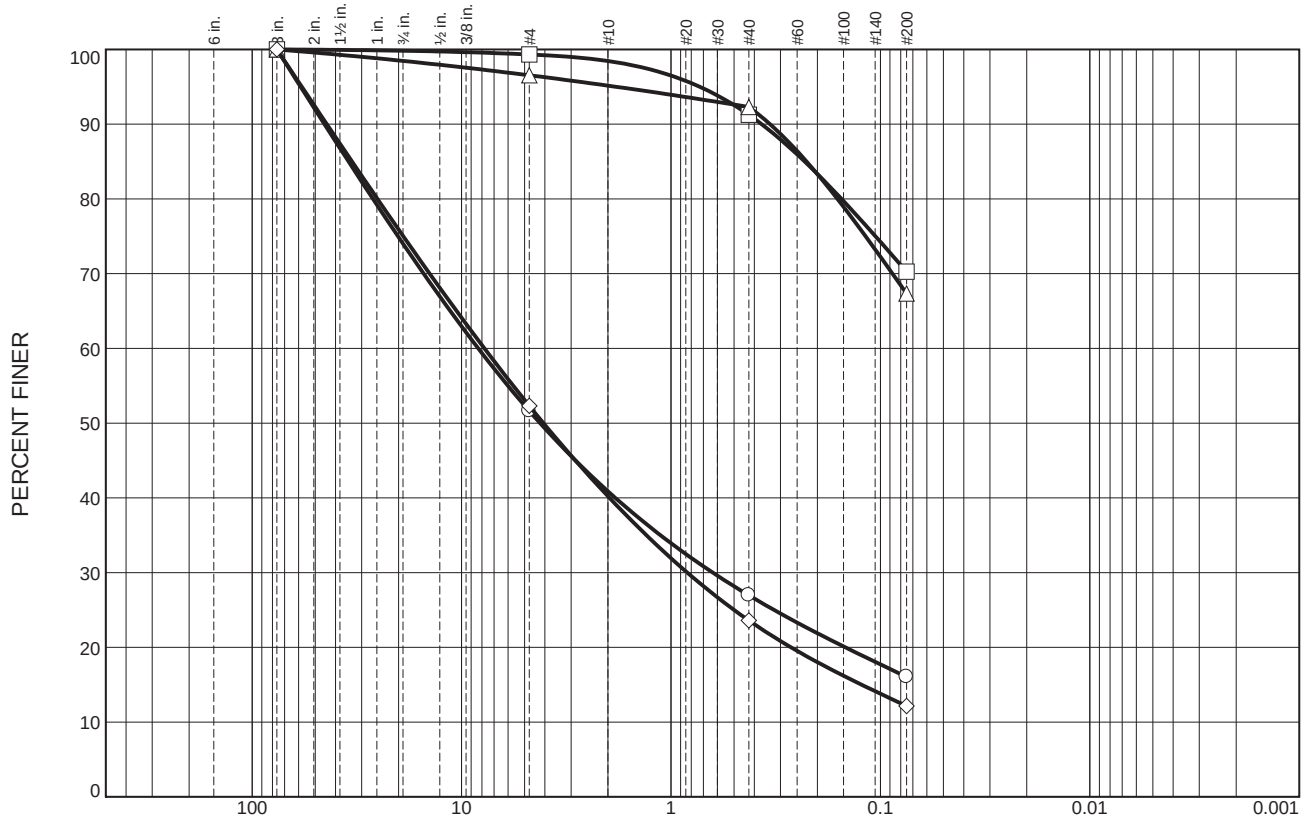
Mountain View, California

ROCKRIDGE GEOTECHNICAL

PLASTICITY CHART

Date 10/12/17 | Project No. 17-1382 | Figure B-1



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	26.0	22.4	10.7	13.9	10.9	16.1	
□	0.0	0.2	0.5	0.9	7.1	21.0	70.3	
△	0.0	1.5	2.0	1.3	2.9	25.0	67.3	
◇	0.0	24.9	22.8	12.1	16.6	11.4	12.2	

SOIL DATA

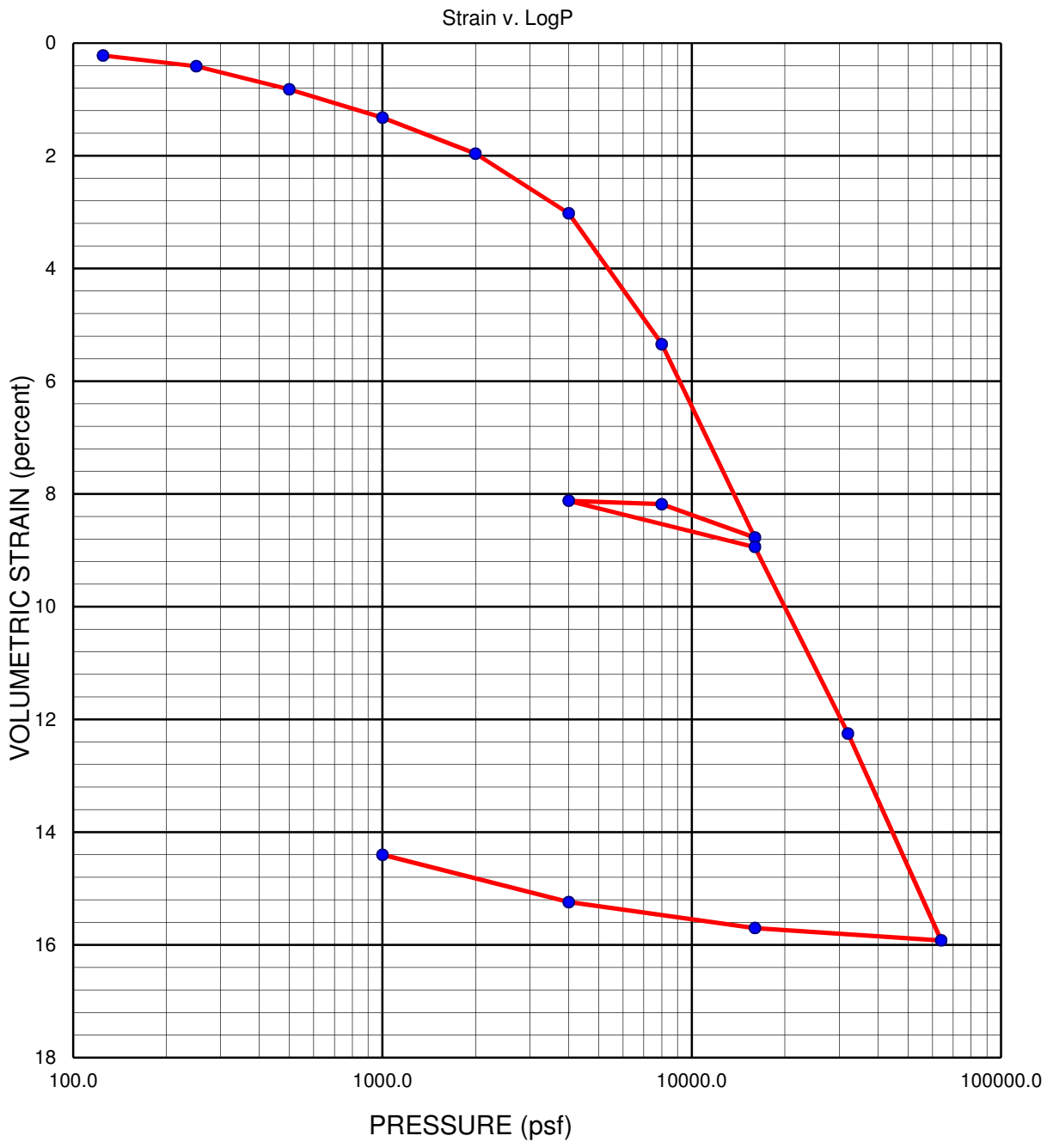
SYMBOL	SOURCE	DEPTH (ft.)	Material Description	USCS
○	B-1	4.0	CLAYEY GRAVEL with SAND, olive-brown	(GC)
□	B-1	11.0'	CLAY with SAND, dark gray	(CL)
△	B-1	36.0'	SANDY, SILTY CLAY, olive-gray	(CL-ML)
◇	B-2	15.5'	CLAYEY GRAVEL with SAND, olive-gray	(GC)

1001 NORTH SHORELINE BOULEVARD
Mountain View, California

ROCKRIDGE GEOTECHNICAL

PARTICLE SIZE DISTRIBUTION REPORT

Date 10/12/17 | Project No. 17-1382 | Figure B-2



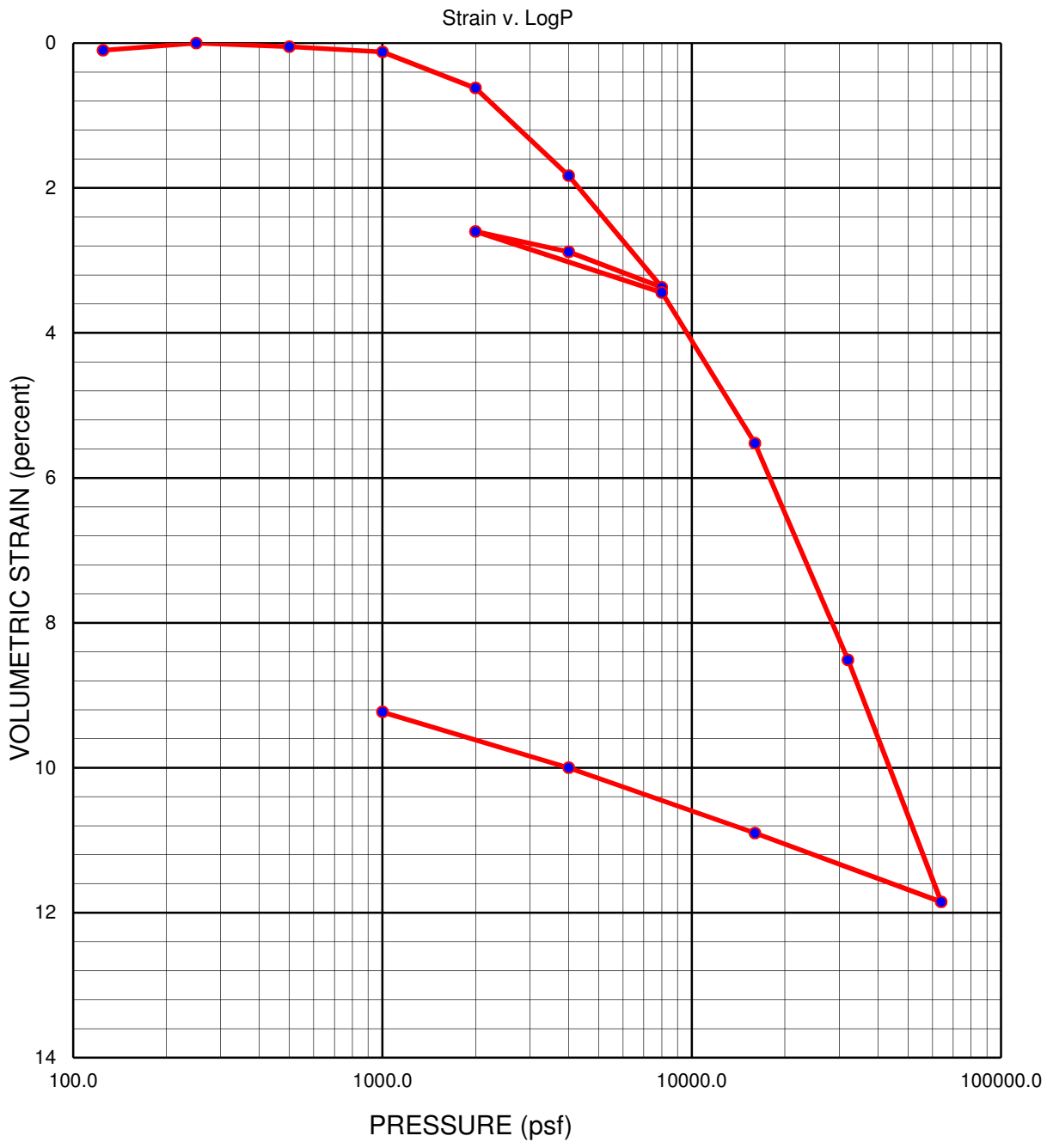
Sampler Type:	Pitcher Barrel			Condition	Before Test			After Test			
Diameter (in)	2.00	Height (in)	0.75	Water Content	w_o	24.4	%	w_f	17.3	%	
Overburden Pressure, p_o	3,200	psf		Void Ratio	e_o	0.72		e_f	0.47		
Preconsol. Pressure, p_c	5,000	psf		Saturation	S_o	93.0	%	S_f	100	%	
Compression Ratio, $C_{\varepsilon c}$	0.12			Dry Density	γ_d	100	pcf	γ_d	116	pcf	
Recompression Ratio, $C_{\varepsilon r}$	0.013	LL	--	PL	--	PI	--	G_s	2.75	(assumed)	
Source:	B-1 at 44.0 feet										
Description:	SANDY, SILTY CLAY (CL-ML), olive-brown										

1001 NORTH SHORELINE BOULEVARD
Mountain View, California

CONSOLIDATION TEST REPORT

ROCKRIDGE GEOTECHNICAL

Date	09/28/17	Project No.	17-1382	Figure B-3



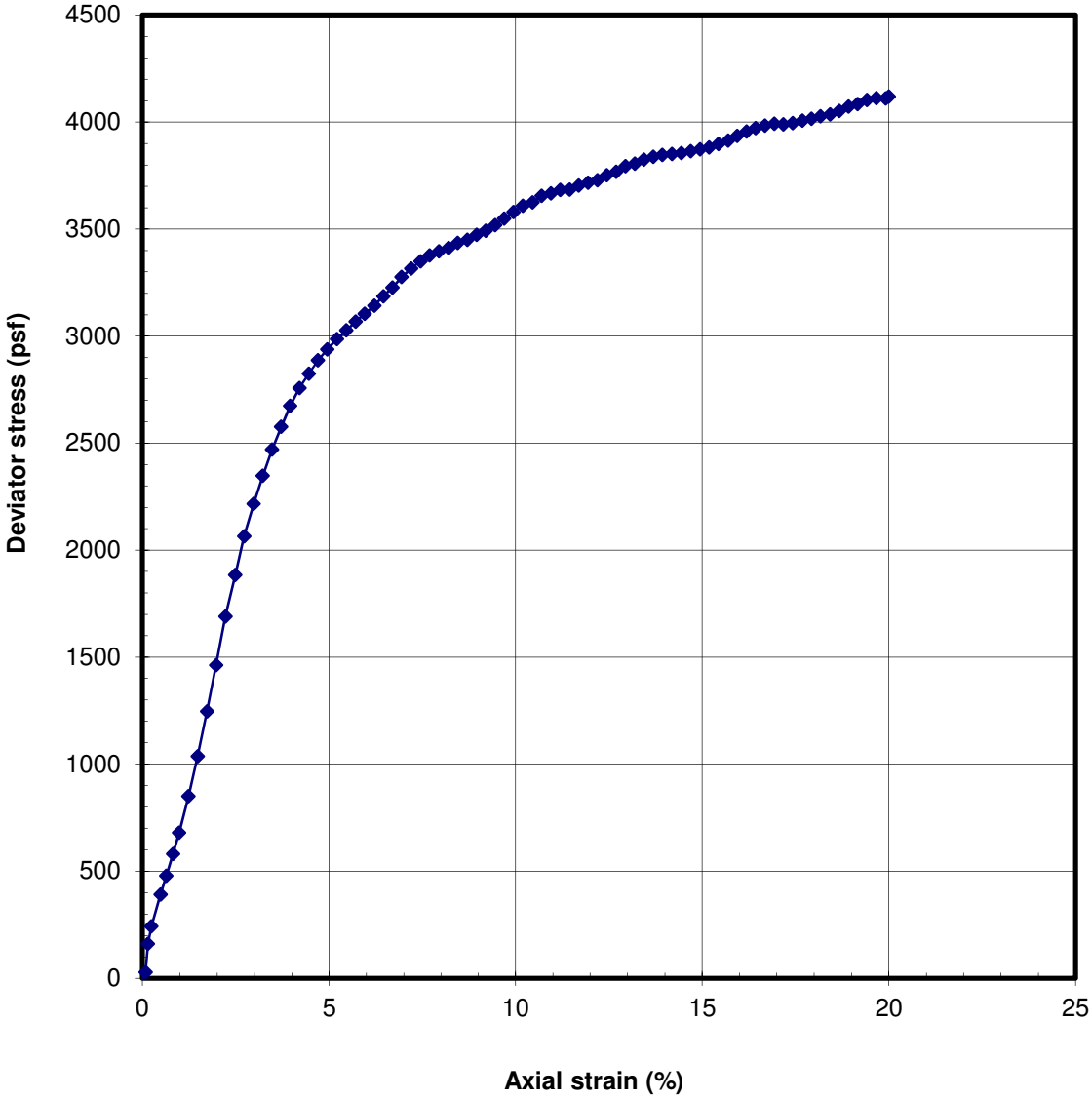
Sampler Type:	Pitcher Barrel			Condition	Before Test			After Test			
Diameter (in)	2.00	Height (in)	0.75	Water Content	w_o	20.5	%	w_f	16.6	%	
Overburden Pressure, p_o	1,050	psf		Void Ratio	e_o	0.59		e_f	0.45		
Preconsol. Pressure, p_c	5,500	psf		Saturation	S_o	93.1	%	S_f	100	%	
Compression Ratio, $C_{\varepsilon c}$	0.10			Dry Density	γ_d	106	pcf	γ_d	116	pcf	
Recompression Ratio, $C_{\varepsilon r}$	0.014	LL	--	PL	--	PI	--	G_s	2.70	(assumed)	
Source:	B-2 at 10.2 feet										
Description:	CLAY with SAND (CL), gray-brown										

1001 NORTH SHORELINE BOULEVARD
Mountain View, California

CONSOLIDATION TEST REPORT

ROCKRIDGE GEOTECHNICAL

Date	09/28/17	Project No.	17-1382	Figure B-4



Sampler Type:	Pitcher Barrel			Shear Strength:	2060 psf
Diameter (in):	2.81	Height (in):	6.62	Strain at Failure:	20.0%
Moisture Content:		19.6	%	Confining Pressure:	950 psf
Dry Density:		113	pcf	Strain Rate:	1%/min
Source:	B-2 at 9.3 feet				
Description:	CLAY with SAND (CL), gray-brown				

1001 NORTH SHORELINE BOULEVARD
Mountain View, California

UNCONSOLIDATED-UNDRAINED TRIAXIAL COMPRESSION TEST

ROCKRIDGE GEOTECHNICAL

Date: 09/30/17 | Project No. 17-1382 | Figure B-5

Results Only Soil Testing for Shoreline

September 26, 2017

Prepared for:
Tessa Williams
Rockridge Geotechnical
270 Grand Ave,
Oakland, CA 94610
tewilliams@rockridgegeo.com

Project X Job#: S170922D
Client Job or PO#: 17-1382

Soil Analysis Lab Results

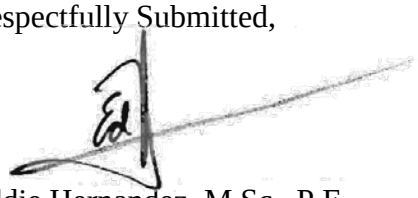
Client: Rockridge Geotechnical
Job Name: Shoreline
Client Job Number: 17-1382
Project X Job Number: S170922D
September 26, 2017

	Method	ASTM G187	ASTM G187	ASTM D516		ASTM D512B		SM 4500-E	SM 4500-C	SM 4500-D	ASTM G200	ASTM G51
Bore# / Description	**Depth**	**As-Rec'd Resistivity**	**Min-Resistivity**	**Sulfates**		**Chlorides**		**Nitrate**	**Ammonia**	**Sulfide**	**Redox**	**pH**
	(ft)	(Ohm-cm)	(Ohm-cm)	(mg/kg)	(wt%)	(mg/kg)	(wt%)	(mg/kg)	(mg/kg)	(mg/kg)	(mV)	
B-2-16	3	2,144	1,273	240	0.0240	24.0	0.0024	12.0	2.50	0.1	272	7.4

Unk = Unknown
NT = Not Tested
mg/kg = milligrams per kilogram (parts per million) of dry soil weight
Chemical Analysis performed on 1:3 Soil-To-Water extract

Please call if you have any questions.

Respectfully Submitted,





Eddie Hernandez, M.Sc., P.E.
Sr. Corrosion Consultant
NACE Corrosion Technologist #16592
Professional Engineer
California No. M37102
ehernandez@projectxcorrosion.com

S170922D Rockridge - Shoreline - 17-1382 1 Full

Project X
Corrosion Engineering
Corrosion Control - Soil, Water, and Metallurgy Lab

Lab Request Sheet Chain of Custody

Phone: (213) 928-7213 · Fax (951) 226-1720 · www.projectxcorrosion.com
Ship Samples To: 29970 Technology Dr, Suite 105F, Murrieta, CA 92563

IMPORTANT: Please complete Project and Sample Identification Data as you would like it to appear in report & include this form with samples.

Project X Job #:	
Date:	

Company Name:	Rockridge Geotechnical	**Contact Name:**	Tessa Williams **Phone No. :** (510) 326-1131
Mailing Address:	270 Grand Avenue, Oakland California	**Contact Email:**	tewilliams@rockridgegeo.com
Accounting Contact:	Kate Schenk	**Invoice Email:**	kaschenk@rockridgegeo.com
Project Name:	1001 N. Shoreline Blvd.		
Client Project No:	17-1382	**P.O. #:**	

	5 Day Normal	3 Day RUSH 75% mark-up	2 Day RUSH 100% mark-up
Turn Around Time:	X		

Results By: ☐ Phone ☐ Fax ☒ Email ☒ Mail ☐ Overnight Mail (charges apply)

Received by: **Default Method**

SPECIAL INSTRUCTIONS:

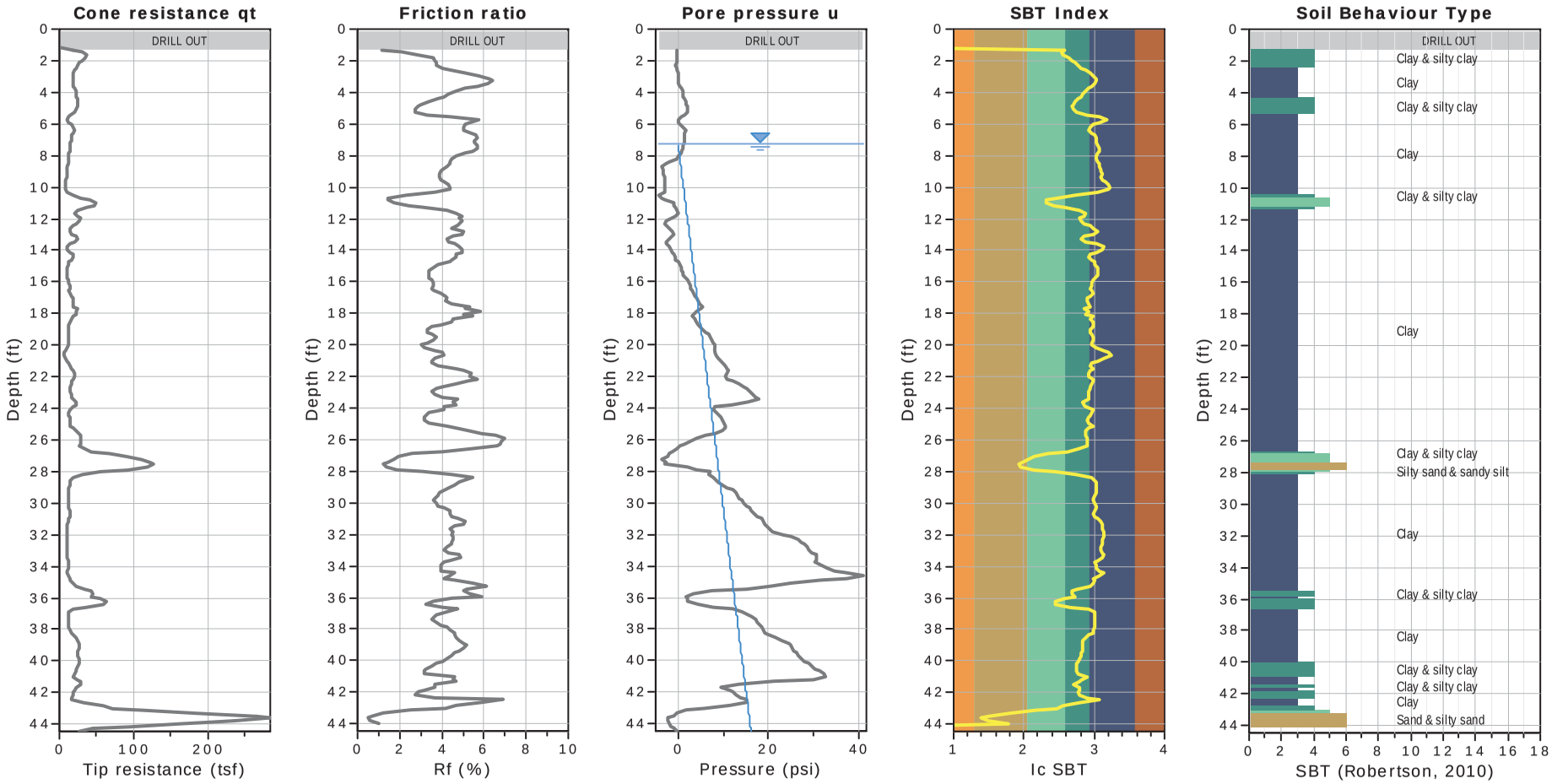
ANALYSIS REQUESTED (Please circle)

	SAMPLE ID - BORE #	DESCRIPTION	DEPTH (ft)	DATE COLLECTED	CORROSION SERIES	Soil Resistivity	pH	Sulfate	Chloride	Redox Potential	BiCarbonate	Alkalinity	Acidity	Nitrate	Ammonia	Sulfide	Moisture Content	Soil Corrosivity Evaluation Report	Metallurgical Analysis	NOTES
	Min. Resistivity, Sulfate, Chloride, Sulfide, Redox, pH, Ammonia, Nitrate.					ASTM G187	ASTM G 51	ASTM D516	ASTM D512B	SM 2580B	SM 2320B	SM 2520B	SM 2510B	Hach 835	Hach 830	SM 4500-S2	ASTM D2216			
						Caltrans CTM643	Caltrans CTM643	Caltrans CTM417	Caltrans CTM422					SM 4500-NO3	SM 4500-NH3	SM 4500-S2				
						ASTM G57	AASHTO T 289	AASHTO T 290	AASHTO T 291											
1	B-2-1b	SANDY CLAY	3'	9/18/17	X															
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				

ROCKRIDGE GEOTECHNICAL

APPENDIX C

Boring Logs, CPT Results, & Laboratory Test Results from Previous Investigations



SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

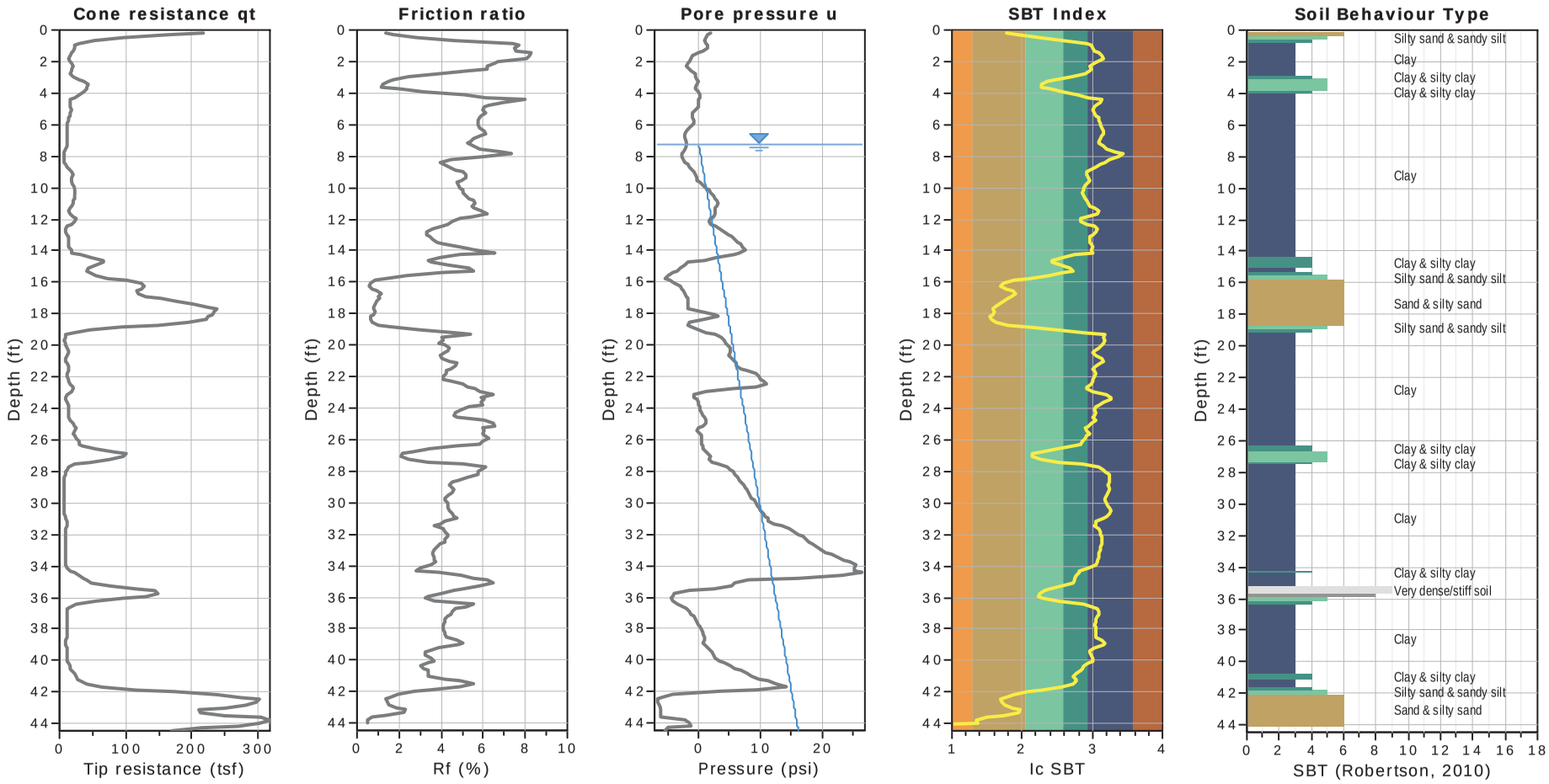
Total depth: 44.46 ft, Date: 3/28/2017
Measured Groundwater Depth: 7.3 feet
Cone Operator: Middle Earth Geo Testing, Inc.

1012 LINDA VISTA & 1110 TERRA BELLA AVENUES
Mountain View, California

ROCKRIDGE GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-1

Date 03/31/17	Project No. 17-1292	Figure A-1



SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

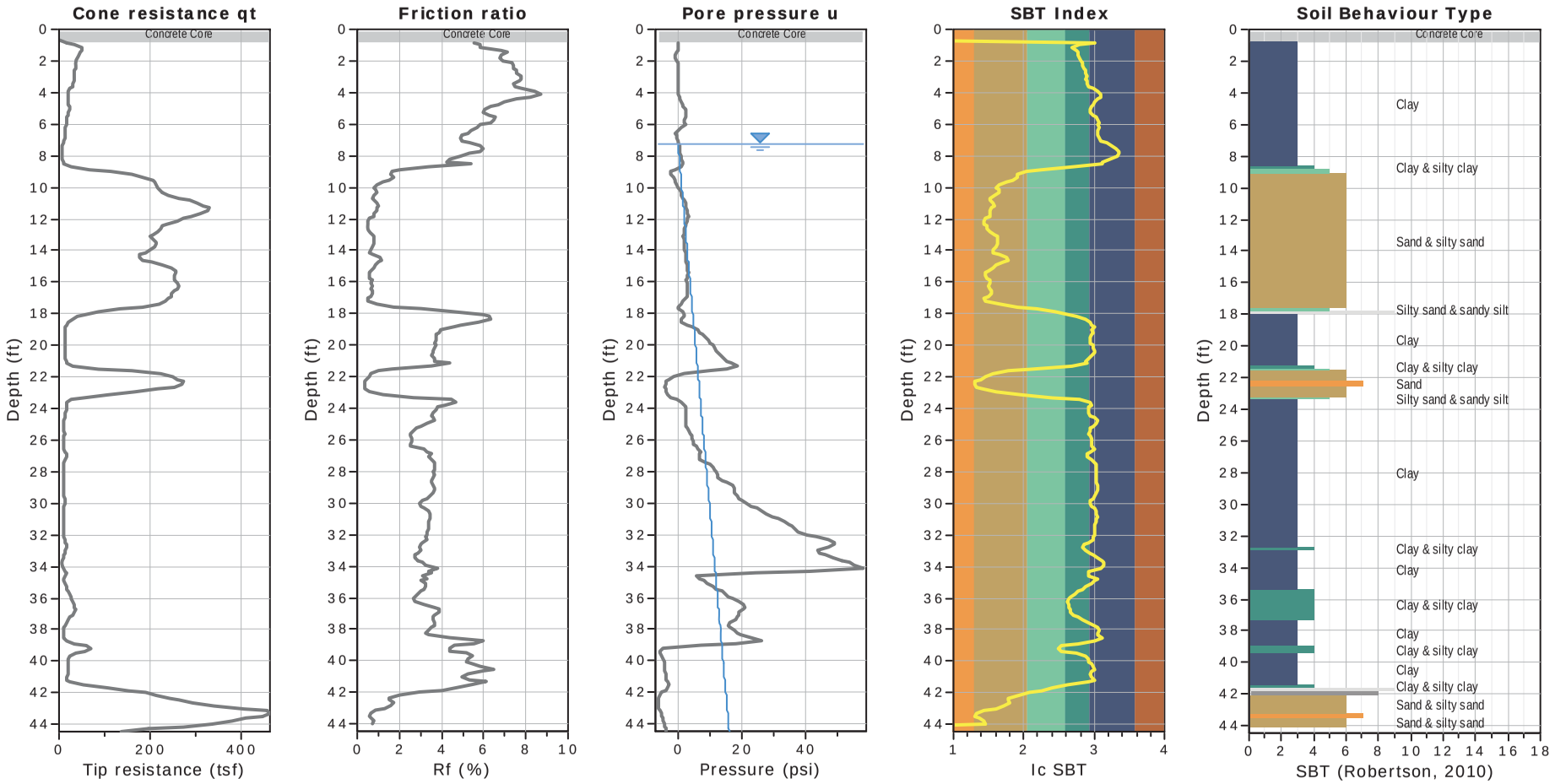
Total depth: 44.46 ft, Date: 3/28/2017
Measured Groundwater Depth: 7.3 feet
Cone Operator: Middle Earth Geo Testing, Inc.

1012 LINDA VISTA & 1110 TERRA BELLA AVENUES
Mountain View, California

ROCKRIDGE GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-2

Date 03/31/17	Project No. 17-1292	Figure A-2



SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

Total depth: 44.46 ft, Date: 3/28/2017
Measured Groundwater Depth: 7.3 feet
Cone Operator: Middle Earth Geo Testing, Inc.

1012 LINDA VISTA & 1110 TERRA BELLA AVENUES
Mountain View, California

ROCKRIDGE GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-3

Date 03/31/17	Project No. 17-1292	Figure A-3

PROJECT: **1012 LINDA VISTA & 1110 TERRA BELLA AVENUES**
Mountain View, California

Log of Boring HA-1

Boring location: See Site Plan, Figure 2
Logged by: J. Sarmiento
Date started: 3/28/17 Date finished: 3/28/17
Drilling method: Hand Auger
Hammer weight/drop: N/A Hammer type: N/A
Sampler: Grab

DEPTH (feet)	SAMPLES: Sampler Type	SAMPLES: Sample	SAMPLES: Blows/ 6"	SAMPLES: SPT N-Value[1]	LITHOLOGY	MATERIAL DESCRIPTION	LABORATORY TEST DATA: Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
1	GRAB	☒			CH	SANDY CLAY (CH) dark brown mottled with yellow-brown, moist, fine sand, roots						
2												
3												
4												
5												
6												
7												
8												
9												
10												

Boring terminated at a depth of 2 feet below ground surface.
Boring backfilled with soil cuttings.
Groundwater not encountered during drilling.

ROCKRIDGE GEOTECHNICAL

Project No.: 17-1292
Figure: A-4

PROJECT: **1012 LINDA VISTA & 1110 TERRA BELLA AVENUES**
Mountain View, California

Log of Boring HA-2

Boring location: See Site Plan, Figure 2
Logged by: J. Sarmiento
Date started: 3/28/17 Date finished: 3/28/17
Drilling method: Hand Auger
Hammer weight/drop: N/A Hammer type: N/A
Sampler: Grab

DEPTH (feet)	SAMPLES: Sampler Type	SAMPLES: Sample	SAMPLES: Blows/ 6"	SAMPLES: SPT N-Value[1]	LITHOLOGY	MATERIAL DESCRIPTION	LABORATORY TEST DATA: Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
1	GRAB					SANDY CLAY (CH) yellow-brown, moist, fine sand, trace roots						
2	GRAB					dark brown LL = 56, PI = 30; see Appendix B					24.1	
3					CH							
4	GRAB											
5												
6	GRAB					dark gray with light gray seams						
7												
8												
9												
10												

Boring terminated at a depth of 6 feet below ground surface.
Boring backfilled with soil cuttings.
Groundwater not encountered during drilling.

ROCKRIDGE GEOTECHNICAL

Project No.: 17-1292
Figure: A-5

UNIFIED SOIL CLASSIFICATION SYSTEM

Major Divisions		Symbols	Typical Names
Coarse-Grained Soils (more than half of soil > no. 200 sieve size)	Gravels (More than half of coarse fraction > no. 4 sieve size)	**GW**	Well-graded gravels or gravel-sand mixtures, little or no fines
		GP	Poorly-graded gravels or gravel-sand mixtures, little or no fines
		GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
	Sands (More than half of coarse fraction < no. 4 sieve size)	**SW**	Well-graded sands or gravelly sands, little or no fines
		SP	Poorly-graded sands or gravelly sands, little or no fines
		SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
Fine -Grained Soils (more than half of soil < no. 200 sieve size)	Silts and Clays LL = < 50	**ML**	Inorganic silts and clayey silts of low plasticity, sandy silts, gravelly silts
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays
		OL	Organic silts and organic silt-clays of low plasticity
	Silts and Clays LL = > 50	**MH**	Inorganic silts of high plasticity
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic silts and clays of high plasticity
Highly Organic Soils		**PT**	Peat and other highly organic soils

GRAIN SIZE CHART

Classification	Range of Grain Sizes	
	U.S. Standard Sieve Size	Grain Size in Millimeters
Boulders	Above 12"	Above 305
Cobbles	12" to 3"	305 to 76.2
Gravel coarse fine	3" to No. 4 3" to 3/4" 3/4" to No. 4	76.2 to 4.76 76.2 to 19.1 19.1 to 4.76
Sand coarse medium fine	No. 4 to No. 200 No. 4 to No. 10 No. 10 to No. 40 No. 40 to No. 200	4.76 to 0.075 4.76 to 2.00 2.00 to 0.420 0.420 to 0.075
Silt and Clay	Below No. 200	Below 0.075

Unstabilized groundwater level

Stabilized groundwater level

SAMPLE DESIGNATIONS/SYMBOLS

Sample taken with Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter. Darkened area indicates soil recovered

Classification sample taken with Standard Penetration Test sampler

Undisturbed sample taken with thin-walled tube

Disturbed sample

Sampling attempted with no recovery

Core sample

Analytical laboratory sample

Sample taken with Direct Push sampler

Sonic

SAMPLER TYPE

C	Core barrel
CA	California split-barrel sampler with 2.5-inch outside diameter and a 1.93-inch inside diameter
D&M	Dames & Moore piston sampler using 2.5-inch outside diameter, thin-walled tube
O	Osterberg piston sampler using 3.0-inch outside diameter, thin-walled Shelby tube
PT	Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube
S&H	Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter
SPT	Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside diameter and a 1.5-inch inside diameter
ST	Shelby Tube (3.0-inch outside diameter, thin-walled tube) advanced with hydraulic pressure

1012 LINDA VISTA & 1110 TERRA BELLA AVENUES
Mountain View, California

ROCKRIDGE GEOTECHNICAL

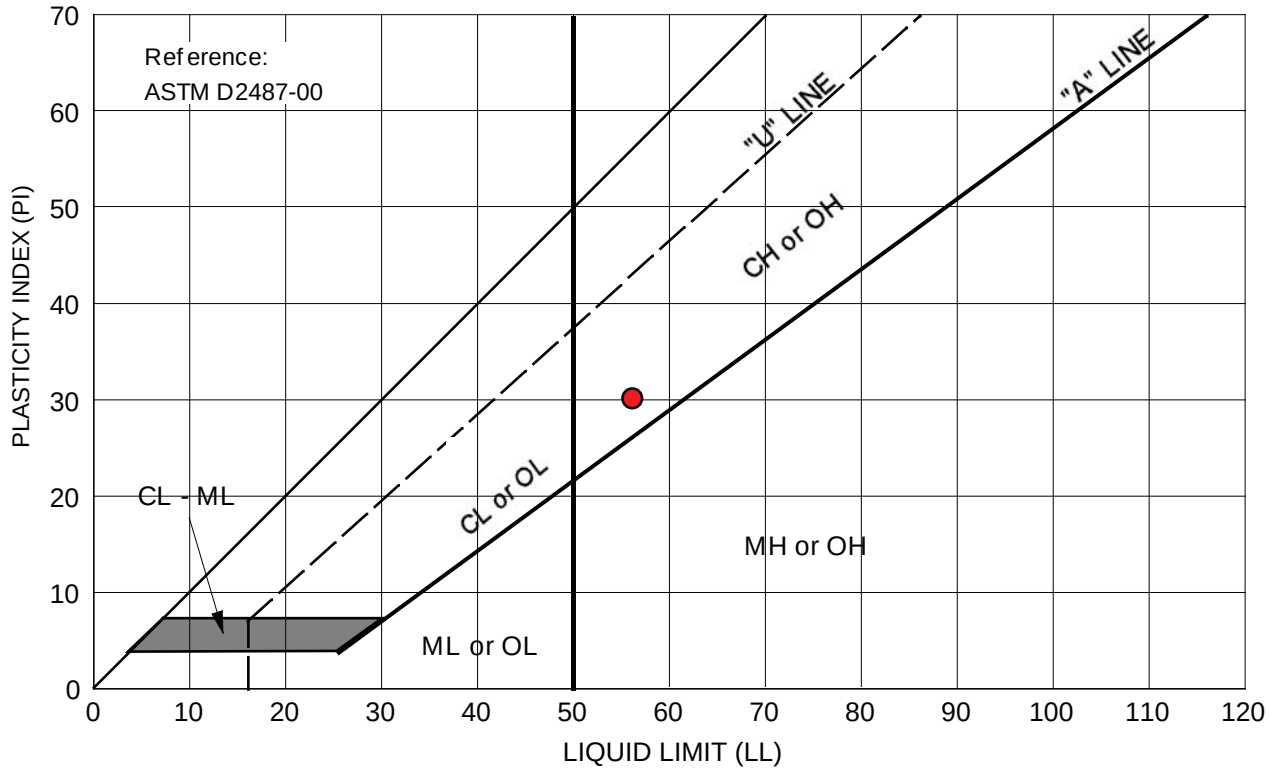
CLASSIFICATION CHART

Date 03/31/17 | Project No. 17-1292 | Figure A-6

ROCKRIDGE GEOTECHNICAL

APPENDIX B

Laboratory Test Data



Symbol	Source	Description and Classification	Natural M.C. (%)	Liquid Limit (%)	Plasticity Index (%)	% Passing #200 Sieve
●	HA-2 at 1.5 - 2.0 feet	SANDY CLAY (CH), dark brown	24.1	56	30	--

1012 LINDA VISTA & 1110 TERRA BELLA AVENUES
Mountain View, California

ROCKRIDGE GEOTECHNICAL

PLASTICITY CHART

Date 04/12/17 | Project No. 17-1292 | Figure B-1

UNIFIED SOIL CLASSIFICATION (ASTM D-2487-10)

MATERIAL TYPES	CRITERIA FOR ASSIGNING SOIL GROUP NAMES			GROUP SYMBOL	SOIL GROUP NAMES & LEGEND
COARSE-GRAINED SOILS >50% RETAINED ON NO. 200 SIEVE	GRAVELS >50% OF COARSE FRACTION RETAINED ON NO 4. SIEVE	CLEAN GRAVELS <5% FINES	Cu>4 AND 1<Cc<3	GW	WELL-GRADED GRAVEL
			Cu>4 AND 1>Cc>3	GP	POORLY-GRADED GRAVEL
		GRAVELS WITH FINES >12% FINES	FINES CLASSIFY AS ML OR CL	GM	SILTY GRAVEL
			FINES CLASSIFY AS CL OR CH	GC	CLAYEY GRAVEL
	SANDS >50% OF COARSE FRACTION PASSES ON NO 4. SIEVE	CLEAN SANDS <5% FINES	Cu>6 AND 1<Cc<3	SW	WELL-GRADED SAND
			Cu>6 AND 1>Cc>3	SP	POORLY-GRADED SAND
		SANDS AND FINES >12% FINES	FINES CLASSIFY AS ML OR CL	SM	SILTY SAND
			FINES CLASSIFY AS CL OR CH	SC	CLAYEY SAND
FINE-GRAINED SOILS >50% PASSES NO. 200 SIEVE	SILTS AND CLAYS LIQUID LIMIT<50	INORGANIC	PI>7 AND PLOTS>"A" LINE	CL	LEAN CLAY
			PI>4 AND PLOTS<"A" LINE	ML	SILT
		ORGANIC	LL (oven dried)/LL (not dried)<0.75	OL	ORGANIC CLAY OR SILT
	SILTS AND CLAYS LIQUID LIMIT>50	INORGANIC	PI PLOTS >"A" LINE	CH	FAT CLAY
			PI PLOTS <"A" LINE	MH	ELASTIC SILT
		ORGANIC	LL (oven dried)/LL (not dried)<0.75	OH	ORGANIC CLAY OR SILT
HIGHLY ORGANIC SOILS		PRIMARILY ORGANIC MATTER, DARK IN COLOR, AND ORGANIC ODOR		PT	PEAT

OTHER MATERIAL SYMBOLS

- Poorly-Graded Sand with Clay
- Clayey Sand
- Sandy Silt
- Artificial/Undocumented Fill
- Poorly-Graded Gravelly Sand
- Topsoil
- Well-Graded Gravel with Clay
- Well-Graded Gravel with Silt
- Sand
- Silt
- Well Graded Gravelly Sand
- Gravelly Silt
- Asphalt
- Boulders and Cobble

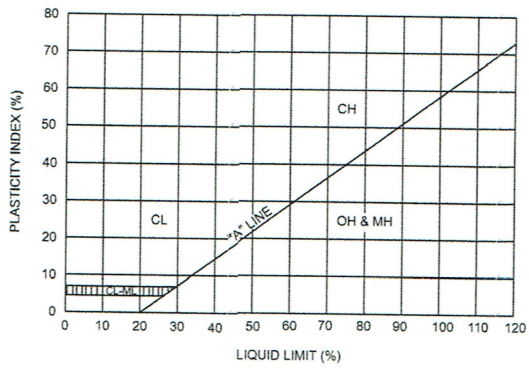
SAMPLER TYPES

- SPT
- Modified California (2.5" I.D.)
- Rock Core
- Shelby Tube
- No Recovery
- Grab Sample

ADDITIONAL TESTS

CA	-	CHEMICAL ANALYSIS (CORROSIVITY)	PI	-	PLASTICITY INDEX
CD	-	CONSOLIDATED DRAINED TRIAXIAL	SW		SWELL TEST
CN	-	CONSOLIDATION	TC	-	CYCLIC TRIAXIAL
CU	-	CONSOLIDATED UNDRAINED TRIAXIAL	TV	-	TORVANE SHEAR
DS	-	DIRECT SHEAR	UC	-	UNCONFINED COMPRESSION
PP	-	POCKET PENETROMETER (TSF)	(1.5)	-	(WITH SHEAR STRENGTH IN KSF)
(3.0)	-	(WITH SHEAR STRENGTH IN KSF)			
RV	-	R-VALUE	UU	-	UNCONSOLIDATED UNDRAINED TRIAXIAL
SA	-	SIEVE ANALYSIS: % PASSING #200 SIEVE			
▼	-	WATER LEVEL			

PLASTICITY CHART



PENETRATION RESISTANCE
(RECORDED AS BLOWS / FOOT)

SAND & GRAVEL		SILT & CLAY		
RELATIVE DENSITY	BLOWS/FOOT*	CONSISTENCY	BLOWS/FOOT*	STRENGTH** (KSF)
VERY LOOSE	0 - 4	VERY SOFT	0 - 2	0 - 0.25
LOOSE	4 - 10	SOFT	2 - 4	0.25 - 0.5
MEDIUM DENSE	10 - 30	MEDIUM STIFF	4 - 8	0.5-1.0
DENSE	30 - 50	STIFF	8 - 15	1.0 - 2.0
VERY DENSE	OVER 50	VERY STIFF	15 - 30	2.0 - 4.0
		HARD	OVER 30	OVER 4.0

* NUMBER OF BLOWS OF 140 LB HAMMER FALLING 30 INCHES TO DRIVE A 2 INCH O.D. (1-3/8 INCH I.D.) SPLIT-BARREL SAMPLER THE LAST 12 INCHES OF AN 18-INCH DRIVE (ASTM-1586 STANDARD PENETRATION TEST).

** UNDRAINED SHEAR STRENGTH IN KIPS/SQ. FT. AS DETERMINED BY LABORATORY TESTING OR APPROXIMATED BY THE STANDARD PENETRATION TEST, POCKET PENETROMETER, TORVANE, OR VISUAL OBSERVATION.

CORNERSTONE EARTH GROUP

LEGEND TO SOIL DESCRIPTIONS

Figure Number A-1

BORING NUMBER EB-1

CORNERSTONE EARTH GROUP

PROJECT NAME 1001 North Shoreline Boulevard
PROJECT NUMBER 693-1-1
PROJECT LOCATION Mountain View, CA
DATE STARTED 4/12/14 DATE COMPLETED 4/12/14
GROUND ELEVATION _____ BORING DEPTH 45 ft.
DRILLING CONTRACTOR Exploration Geoservices, Inc.
LATITUDE _____ LONGITUDE _____
DRILLING METHOD Mobile B-53, 8 inch Hollow-Stem Auger
GROUND WATER LEVELS:
LOGGED BY CSH
AT TIME OF DRILLING 12.25 ft.
NOTES
AT END OF DRILLING 10.5 ft.

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT, %	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf (○ HAND PENETROMETER, △ TORVANE, ● UNCONFINED COMPRESSION, ▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL) 1.0 2.0 3.0 4.0
	0		2 inches asphalt concrete over 6 inches aggregate base							
			Fat Clay with Gravel (CH) [Fill] very stiff, moist, dark gray, fine to coarse gravel, some fine sand, high plasticity Liquid Limit = 70, Plastic Limit = 26	23	MC-2	95	27	43		○
			Fat Clay (CH) hard, moist, dark gray, trace fine sand, high plasticity	42	MC-4	100	25			○ >4.5
	5			41	MC-6	93	25			○ >4.5
			Lean Clay with Sand (CL) stiff, moist, gray, fine to medium sand, moderate plasticity	16	MC-8	97	25			○
	10		Liquid Limit = 36, Plastic Limit = 19	5	SPT-9		25	17		○
			Clayey Sand (SC) loose to medium dense, moist, gray with brown mottles, fine to medium sand	7	SPT-10		24		49	
				11	SPT-11		21		43	
	15		**Lean Clay (CL)** stiff, moist, gray brown, some fine sand, moderate plasticity							
			Sandy Lean Clay (CL) very stiff, moist, gray, fine to coarse sand, low plasticity	22	MC-13	110	20			○
	20		**Poorly Graded Sand with Silt (SP-SM)** very dense, wet, moist, gray and brown, fine to coarse sand	93	SPT-14		14			
				30	MC-16	105	23			○
	25									

Continued Next Page

CORNERSTONE EARTH GROUP2 - CORNERSTONE 0812.GDT - 4/29/14 09:50 - P:\DRAFTING\GINT FILES\693-1-1 SHORELINE.GPJ

BORING NUMBER EB-1

CORNERSTONE EARTH GROUP

PROJECT NAME 1001 North Shoreline Boulevard

PROJECT NUMBER 693-1-1

PROJECT LOCATION Mountain View, CA

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT, %	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE
			Lean Clay (CL) very stiff, moist, olive with gray mottles, some fine sand, moderate plasticity						
			Clayey Sand (SC) medium dense, moist, moist, gray and brown, fine sand	23	SPT-17		20		
	30		**Lean Clay (CL)** stiff, moist, gray, trace fine sand, moderate plasticity						
			Sandy Silt (CL) medium stiff, moist, gray, fine sand, low plasticity	19	MC-19	95	29		
	35								
			Lean Clay (CL) very stiff, moist, gray, some fine to coarse sand, moderate plasticity	35	MC-21	102	25		
	40								
			becomes stiff	22	MC-23	99	24		
	45		Bottom of Boring at 45.0 feet.						
	50								
	55								

UNDRAINED SHEAR STRENGTH, ksf
○ HAND PENETROMETER
△ TORVANE
● UNCONFINED COMPRESSION
▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL
1.0 2.0 3.0 4.0

CORNERSTONE EARTH GROUP2 - CORNERSTONE 0812.GDT - 4/29/14 09:50 - P:\DRAFTING\GINT FILES\693-1-1 SHORELINE.GPJ

BORING NUMBER EB-2

CORNERSTONE EARTH GROUP

PROJECT NAME 1001 North Shoreline Boulevard
PROJECT NUMBER 693-1-1
PROJECT LOCATION Mountain View, CA
GROUND ELEVATION _____ **BORING DEPTH** 25 ft.
LATITUDE _____ **LONGITUDE** _____
GROUND WATER LEVELS:
▽ AT TIME OF DRILLING 10.5 ft.
▼ AT END OF DRILLING 10.5 ft.

DATE STARTED 4/12/14 **DATE COMPLETED** 4/12/14
DRILLING CONTRACTOR Exploration Geoservices, Inc.
DRILLING METHOD Mobile B-53, 8 inch Hollow-Stem Auger
LOGGED BY CSH
NOTES _____

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT, %	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE
	0	2½ inches asphalt concrete over 9 inches aggregate base						
		Fat Clay with Sand (CH) [Fill] very stiff, moist, dark gray with brown mottles, fine to coarse sand, some fine gravel, high plasticity	49	MC-2	84	29		
		Fat Clay (CH) hard, moist, dark gray to gray, trace fine sand, high plasticity	40	MC-4	99	26		
	5		45	MC-6	95	28		
		Lean Clay with Sand (CL) very stiff, moist, gray, fine to medium sand, moderate plasticity	16	MC-8	91	23		
	10	**Clayey Sand (SC)** medium dense, wet, gray and brown, fine to coarse sand	14	SPT-9		13		13
		Silty Sand (SM) loose, moist, gray, fine sand NP = non plastic	9	SPT-10		24	NP	33
			14	MC-12	103	22		
	15	**Lean Clay with Sand (CL)** stiff, moist, gray brown, fine sand, moderate plasticity						
	20	**Silty, Clayey Sand (SC-SM)** medium dense, moist, gray brown, fine to coarse sand, some fine subangular to subrounded gravel Liquid Limit = 26, Plastic Limit = 20	28	MC-14	125	17		
			27	SPT-15		21	6	34
		Poorly Graded Sand with Silt (SP-SM) medium dense, wet, gray and brown, fine to coarse sand	20	SPT-16		19		
		Lean Clay with Sand (CL) very stiff, moist, gray, fine to medium sand, moderate plasticity	20	MC-18	103	25		
	25	Bottom of Boring at 25.0 feet.						

UNDRAINED SHEAR STRENGTH, ksf
○ HAND PENETROMETER
△ TORVANE
● UNCONFINED COMPRESSION
▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL
1.0 2.0 3.0 4.0
>4.5

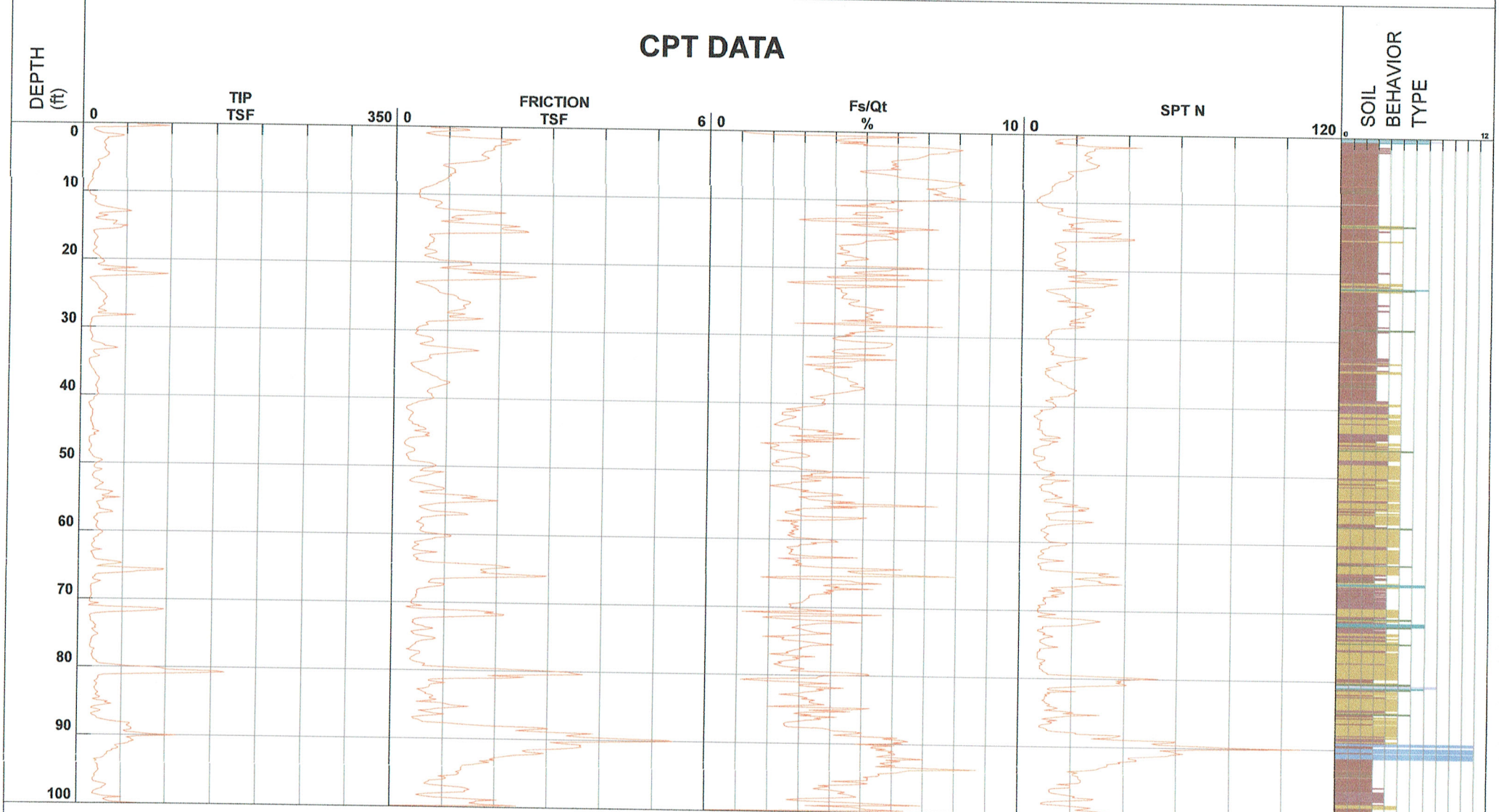
CORNERSTONE EARTH GROUP2 - CORNERSTONE 0812.GDT - 4/29/14 09:50 - P:\DRAFTING\GINT FILES\693-1-1 SHORELINE.GPJ

Cornerstone Earth Group

Project	1001 N. Shoreline Blvd	Operator	CB/MM	Filename	SDF(206).cpt
Job Number	693-1-1	Cone Number	DDG1268	GPS	
Hole Number	CPT-01	Date and Time	4/12/2014 8:49:41 AM	Maximum Depth	100.06 ft
EST GW Depth During Test		2.00 ft			

Net Area Ratio .8

CPT DATA

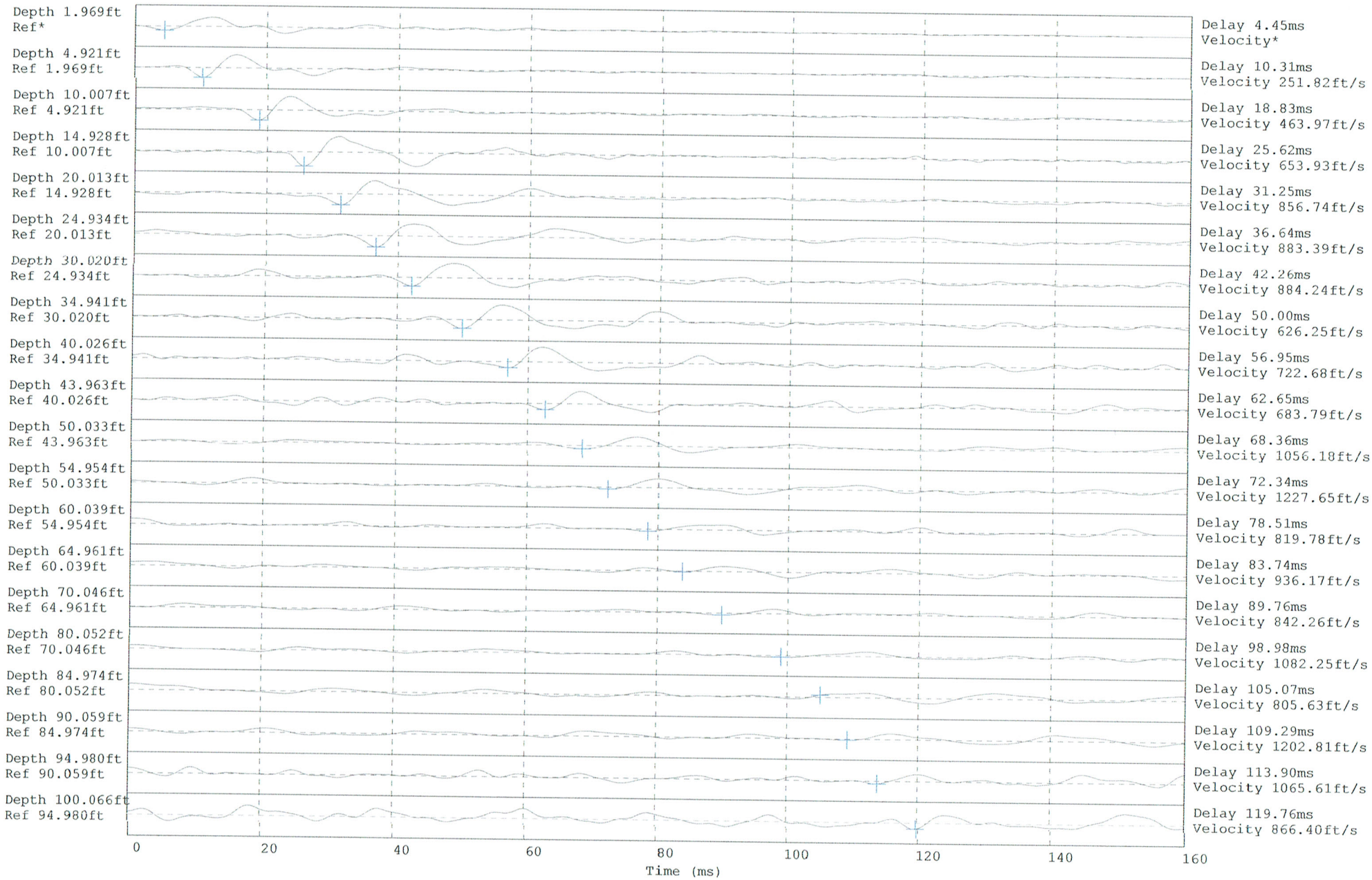


1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

Cone Size 10cm squared

S*Soil behavior type and SPT based on data from UBC-1983

SDF(206).smc



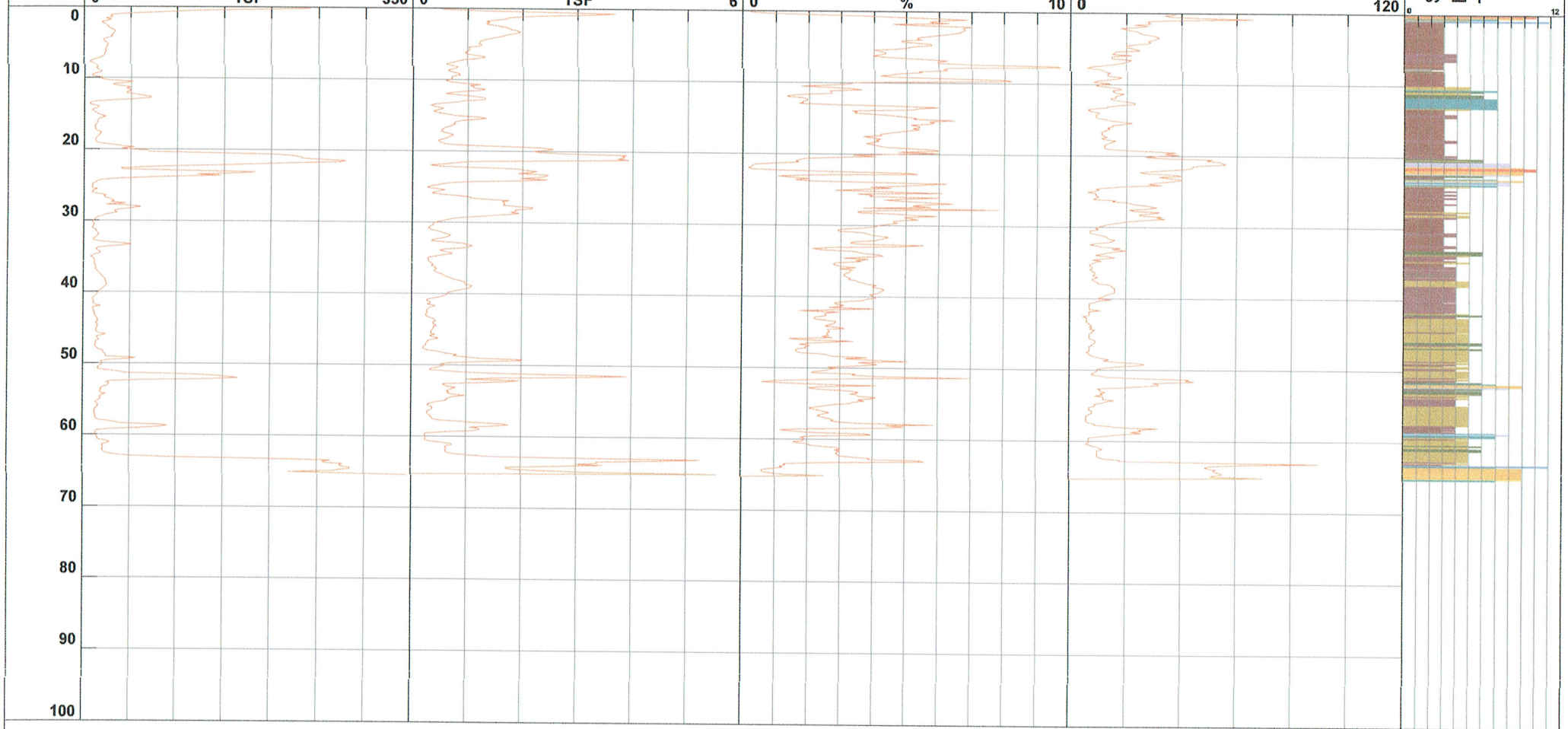
Hammer to Rod String Distance 1.778(m)
* = Not Determined

Cornerstone Earth Group

Project	1001 N. Shoreline Blvd	Operator	CB/MM	Filename	SDF(205).cpt
Job Number	693-1-1	Cone Number	DDG1268	GPS	
Hole Number	CPT-02	Date and Time	4/12/2014 7:27:19 AM	Maximum Depth	65.45 ft
EST GW Depth During Test		2.00 ft			

Net Area Ratio .8

CPT DATA



1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

Cone Size 10cm squared

S*Soil behavior type and SPT based on data from UBC-1983

APPENDIX B: LABORATORY TEST PROGRAM

The laboratory testing program was performed to evaluate the physical and mechanical properties of the soils retrieved from the site to aid in verifying soil classification.

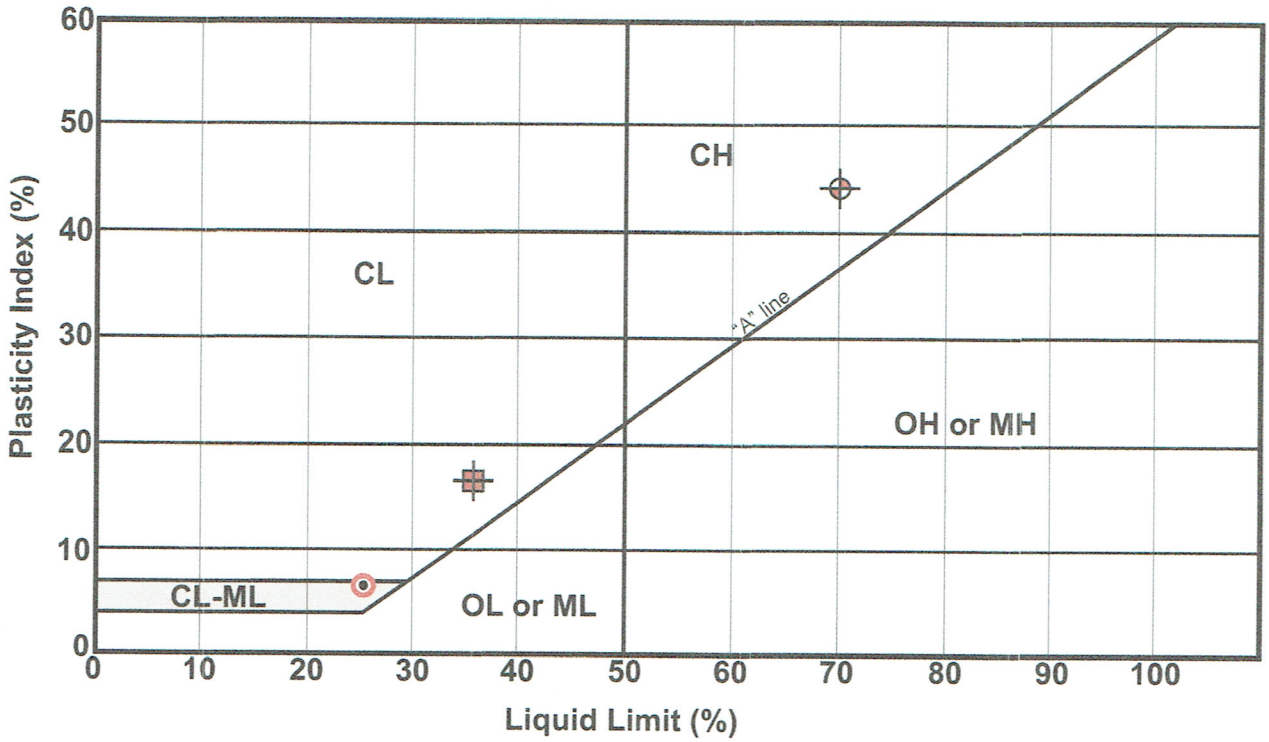
Moisture Content: The natural water content was determined (ASTM D2216) on 25 samples of the materials recovered from the borings. These water contents are recorded on the boring logs at the appropriate sample depths.

Dry Densities: In place dry density determinations (ASTM D2937) were performed on 16 samples to measure the unit weight of the subsurface soils. Results of these tests are shown on the boring logs at the appropriate sample depths.

Washed Sieve Analyses: The percent soil fraction passing the No. 200 sieve (ASTM D1140) was determined on five samples of the subsurface soils to aid in the classification of these soils. Results of these tests are shown on the boring logs at the appropriate sample depths.

Plasticity Index: Four Plasticity Index determinations (ASTM D4318) were performed on samples of the subsurface soils to measure the range of water contents over which this material exhibits plasticity. The Plasticity Index was used to classify the soil in accordance with the Unified Soil Classification System and to evaluate the soil expansion potential. Results of these tests are shown on the boring logs at the appropriate sample depths and are presented graphically in this appendix.

Plasticity Index (ASTM D4318) Testing Summary



Symbol	Boring No.	Depth (ft)	Natural Water Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index	Passing No. 200 (%)	Group Name (USCS - ASTM D2487)
⊕	EB-1	2.0	27	70	26	44	—	Fat Clay with Gravel (CH) [Fill]
▦	EB-1	10.0	25	36	19	17	—	Lean Clay with Sand (CL)
	EB-2	11.5	24	determined non-plastic			33	Silty Sand (SM)
◉	EB-2	20.0	21	26	20	6	34	Silty, Clayey Sand (SC-SM)

Samples prepared in accordance with ASTM D421

CORNERSTONE EARTH GROUP

Plasticity Index Testing Summary

1001 North Shoreline Boulevard
Mountain View, CA

Project Number: 693-1-1

Figure Number: Figure B1

Date: April 2014

Drawn By: FLL

Appendix I

Phase I Environmental Site Assessment, Phase II Subsurface Investigation, and Peer Review

Phase I Environmental Site Assessment and Phase II Subsurface Investigation

1001 North Shoreline Boulevard
Mountain View, California

Prepared for:
LH Shoreline LP

14 June 2019
EKI B80116.00

EKI ENVIRONMENT & WATER, INC.

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(650) 292-9100
ekiconsult.com

14 June2019

Ms. Kerry Williams
c/o Sares Regis Group
901 Mariners Island Boulevard, Suite 700
San Mateo, California 94404

Subject: Phase I Environmental Site Assessment and Phase II Subsurface Investigation
1001 North Shoreline Boulevard
Mountain View, California
(EKI B80116.00)

Dear Ms. Williams:

EKI Environment & Water, Inc. ("EKI") is pleased to present to the Sares Regis Group ("SRG"), who is acting as the development manager for LH Shoreline LP ("Client") the enclosed report entitled *Phase I Environmental Site Assessment and Phase II Subsurface Investigation, 1001 North Shoreline Boulevard, Mountain View, California,* dated 14 June 2019. EKI's services were performed in accordance with the Agreement between Client and EKI, dated 20 February 2019, and Addendum No. 2, dated 12 March 2019.

The Phase I ESA was performed by EKI in general conformance with the scope and limitations of American Society for Testing and Materials ("ASTM") *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, Designation: E1527-13 (published on 1 November 2013), and the requirements issued by the U.S. Environmental Protection Agency ("U.S. EPA") in 40 CFR Part 312, *Standards and Practices for All Appropriate Inquiries*, *Final Rule,* dated 1 November 2005 ("Final EPA AAI Rule"). The ASTM 1527-13 standard and the Final EPA AAI Rule similarly prescribe accepted reasonable efforts to identify conditions indicative of releases and threatened releases of hazardous substances on, at, in, or to the Subject Property, e.g., Recognized Environmental Conditions ("RECs").

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in 40 CFR Section 312.10. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. We have developed and performed the all appropriate inquiries in general conformance with the standards and practices set forth in 40 CFR Part 312.

We are pleased to have the opportunity to work with you on this project. Please call if you have any questions or need further assistance.

Very truly yours,

EKI ENVIRONMENT & WATER, INC.

Michelle K. King, Ph.D.
President

James Yoon
Project Engineer

PHASE I ENVIRONMENTAL SITE ASSESSMENT AND PHASE II SUBSURFACE INVESTIGATION
1001 North Shoreline Boulevard
Mountain View, California

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Executive Summary

EKI Environment & Water, Inc. ("EKI") (formerly Erler & Kalinowski, Inc.) is pleased to present to LH Shoreline LP (the "User") this report documenting the results of the Phase I Environmental Site Assessment ("ESA") and Phase II subsurface investigation for a portion of the property located at the southeastern intersection of Shoreline Boulevard and Highway 101 and identified as 1001 North Shoreline Boulevard in Mountain View, California (the "Subject Property," Figure 1). The Subject Property is approximately 6.0 acres in area and consists of a portion of the parcel identified as Assessor's Parcel Number ("APN") 153-15-032.[1] The larger parcel on which the Subject Property is located is currently occupied by an office building, parking area, and recreational amenities; this Phase I ESA and the Subject Property defined herein includes only the parking area and recreational amenities, as shown on Figure 2. EKI understands that the User owns the Subject Property and has proposed to redevelop the Subject Property with multi-family residential units and limited retail space.

The Phase I ESA was performed by EKI in conformance with the scope and limitations of ASTM International ("ASTM") *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment* Process, Designation: E1527-13 (published on 1 November 2013), and the requirements issued by the U.S. Environmental Protection Agency ("U.S. EPA") in 40 CFR Part 312, *Standards and Practices for All Appropriate Inquiries*, *Final Rule,* dated 1 November 2005 ("Final EPA AAI Rule"). The ASTM 1527-13 standard and the Final EPA AAI Rule similarly prescribe accepted reasonable efforts to identify conditions indicative of releases and threatened releases of hazardous substances or petroleum products on, at, or in, the Subject Property, e.g., Recognized Environmental Conditions ("RECs"). A Phase II subsurface investigation was also conducted as part of the assessment.

Summary of Phase I ESA Findings

EKI's Phase I ESA findings and opinions are presented below. The following REC was identified in connection with the Subject Property:

- Soil gas and groundwater on the Subject Property have been impacted by offsite sources, including the migration of trichloroethene ("TCE") and breakdown products cis-1,2-dichloroethene ("cDCE") and vinyl chloride originating from the 1155 Terra Bella Avenue property to the south. Three groundwater monitoring wells were installed on the southeastern portion of the Subject Property and sampled in 1988 and 2005 (Figure 3). In 1988, TCE was detected in the three wells at concentrations ranging from 16 micrograms per liter ("ug/L") to 300 ug/L. When the wells were sampled in 2005, TCE was detected at concentrations ranging from 33 ug/L to 46 ug/L. In 2019, EKI collected groundwater and soil gas samples across the Subject Property. TCE, cDCE, and vinyl chloride were detected

[1] The full parcel is approximately 7.3 acres in size.

in soil gas and/or groundwater in some locations. Detected TCE concentrations in groundwater ranged from 93.5 ug/L to 14.1 ug/L (with the maximum concentrations at the southeastern portion of the Subject Property adjacent to 1155 Terra Bella Avenue); TCE was not detected in the groundwater samples collected in the northwestern portion of the Subject Property. Based on the detected concentrations in groundwater and investigations conducted on behalf of the property owner of 1155 Terra Bella Avenue, the TCE appears to have been released from a former UST on the upgradient 1155 Terra Bella Avenue property.

The following Historical REC ("HREC") associated with the Subject Property was identified in the performance of this Phase I ESA:

- Several known petroleum hydrocarbon release sites are located south and upgradient of the Subject Property, including the Texaco site located at 975 North Shoreline Boulevard and the Shippen Property site located at 1175 Terra Bella Avenue, as well as other release sites located further to the south. The Texaco and the Shippen Property sites have undergone remediation and both sites received regulatory closure in 2011 and 2001, respectively.

  Given that both the Texaco and the Shippen Property sites have received regulatory closure and the very low concentrations of constituents of concern detected in groundwater at the Subject Property during EKI's 2019 sampling event, these groundwater impacts are not likely to significantly impact the planned future use of the Subject Property.

Summary of EKI 2019 Subsurface Investigations

In March 2019, EKI conducted subsurface investigations at the Subject Property that included the collection and analysis of soil, soil gas, and groundwater samples. The sample locations are shown on Figures 3 and 4, and the analytical results are presented in Tables 1, 2, and 3 of this report. A summary of the findings is presented below.

Results of Soil Sampling

EKI collected and analyzed soil samples from 14 locations on the Subject Property from depths of approximately 0.5 to 1 foot below ground surface ("bgs") and from 7 locations on the Subject Property from depths of approximately 2.5 to 3 feet bgs for analysis of organochlorine pesticides, arsenic, and lead. EKI also collected soil samples from one borehole on the Subject Property in the location of a former transformer pad from depths of approximately 0.5 to 1 foot and 2.5 to 3 feet bgs for analysis of polychlorinated biphenyls ("PCBs"). According to the analytical results, arsenic and lead concentrations in the soil samples were consistent with background levels, and organochlorine pesticides and PCBs were not detected above residential screening levels. Based

on this sampling, EKI did not identify soil with evidence of environmental impacts on the Subject Property.

Results of Soil Gas Sampling

EKI collected soil gas samples from 9 soil gas probes on the Subject Property for analysis of volatile organic compounds ("VOCs"). The primary VOCs detected in soil gas included TCE, cDCE, vinyl chloride, tetrachloroethene ("PCE"), benzene, and chloroform, which were detected at concentrations above the residential land use Environmental Screening Levels ("ESL") for soil gas. TCE, cDCE, and vinyl chloride concentrations in soil gas in the southeastern portion of the Subject Property are consistent with the concentrations of these chemicals observed in groundwater samples collected immediately south of the Subject Property at 1155 Terra Bella Avenue, where a release of TCE has resulted in an identified groundwater plume migrating to the north, i.e., beneath the Subject Property. cDCE and vinyl chloride are likely breakdown products of the TCE in the plume.

It should also be noted that an elevated level of PCE was detected at borehole SG-6, outside the plume originating from 1155 Terra Bella Avenue. PCE was not detected in any of the groundwater samples and no historic source is apparent. Two additional soil gas samples were collected in close proximity to SG-6 and contained PCE at elevated concentrations, although somewhat lower than the concentrations detected in SG-6. As such, the PCE detection at SG-6 appears to be limited in area.

Results of Groundwater Sampling

EKI collected groundwater samples from five locations on the Subject Property for analysis of VOCs. TCE and cDCE were detected in groundwater samples at concentrations above screening levels. The concentrations of these compounds detected in groundwater are shown on Figure 3. The TCE and cDCE detected in groundwater are consistent with those in soil gas and with the plume known to be migrating to the Subject Property from the upgradient 1155 Terra Bella Avenue property to the south.

Taken together, these data suggest the following:

- the TCE, cDCE, and vinyl chloride in soil gas detected the Subject Property likely originate from offsite groundwater migrating to the Subject Property from 1155 Terra Bella Avenue to the south;
- it is unlikely that any significant release of VOCs, including TCE, occurred on the Subject Property; and
- potential historical uses of organochlorine pesticides, arsenic, lead, and PCBs do not appear to affect shallow soil on the Subject Property.

Recommendations

Chlorinated VOCs (PCE, TCE, cDCE and vinyl chloride) are present in all of the soil gas and groundwater samples collected in the southeastern portion of the Subject Property and in soil gas samples collected from locations SG-6, SG-10, and SG-11 in the northwestern portion of the Subject Property. Although the concentrations of these compounds are relatively low, to be conservative, vapor intrusion mitigation measures should be incorporated into any proposed at-grade occupied spaces in the southeastern portion of the Subject Property.

In the northwestern portion of the Subject Property, vapor intrusion mitigation measures should be incorporated into any proposed at-grade occupied spaces from location SG-6 on the east to location SG-7 on the west. Soil gas samples collected from locations SG-7, SG-8, and SG-9 and groundwater samples collected from locations GW-4 and GW-5 did not contain VOCs at concentrations above vapor intrusion screening criteria, and vapor intrusion mitigation is not warranted for the areas north and west of location SG-7.

Shallow soil samples collected during this investigation did not contain organochlorine pesticides, arsenic, or lead at concentrations above residential screening criteria, and remediation, treatment, or mitigation of this soil is not warranted. A materials management program should be put in place as part of construction management for redevelopment to guide soil export and import requirements as well as protocols for dewatering water that may be generated as part of development.

1 INTRODUCTION

EKI is pleased to present to the User this Phase I ESA for the 1001 North Shoreline Boulevard property in Mountain View, California (Figure 1). The Subject Property is approximately 6.0 acres in area and is part of a larger parcel identified by APN 153-15-032. The larger parcel where the Subject Property is located is currently occupied by an office building, parking area, and recreational amenities; the Subject Property and this Phase I ESA include only the parking area and recreational portions of this larger parcel, as shown on Figure 2.

The Phase I ESA was performed by EKI in conformance with the scope and limitations of ASTM *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, Designation: E1527-13 (published on 1 November 2013), and the requirements issued by the U.S. EPA in the Final EPA AAI Rule. The ASTM 1527-13 standard and the Final EPA AAI Rule similarly prescribe accepted reasonable efforts to identify conditions indicative of releases and threatened releases of hazardous substances or petroleum products on, at, or in, the Subject Property, e.g., RECs.

EKI's services were performed in accordance with the Agreement between the User and EKI, dated 20 February 2019, and Addendum No. 2, dated 12 March 2019.

1.1 Purpose for Phase I ESA

The purpose of the Phase I ESA was to identify RECs for the Subject Property as defined in ASTM E1527-13. EKI understands that the User owns the Subject Property and is proposing to redevelop the northwestern and southeastern portions of the Subject Property with multi-family residences and limited retail space.

1.2 Reliance on Phase I ESA

This report was prepared pursuant to the Agreement between EKI and the User and, as such, is for the sole use and reliance of the User. Unless specifically authorized in writing in an agreement acceptable to EKI in its sole discretion, the reliance on this report by any other entity is not permitted or authorized. Reliance on the information contained in this report by any third party without authorization by EKI does not make the third party a beneficiary to EKI's Agreement with the User. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at third party's risk. The User of this report, as defined by ASTM E1527-13, and as accepted under the Final EPA AAI Rule, is LH Shoreline LP, its affiliates and assigns.

1.3 Phase I ESA Scope of Work

EKI's work in connection with this Phase I ESA included the following tasks:

- Reviewed available historical land use information for the Subject Property and surrounding area, e.g., historical aerial photographs and historical topographic maps provided by Environmental Data Resources, Inc. ("EDR") (see Appendix A);

- Purchased and reviewed a regulatory agency database report for the Subject Property and surrounding area prepared by EDR, dated 15 March 2019 (referred to as EDR Radius Map Report; see Appendix E);

- Reviewed publicly-available files for the Subject Property made available by the City of Mountain View Building Department, the City of Mountain View Fire Department Hazardous Materials Division, and the California Department of Water Resources ("DWR");

- Reviewed environmental reports prepared for nearby upgradient reported chemical release sites available on-line through the State of California Water Resources Control Board ("SWRCB") GeoTracker database and EnviroStor websites;

- Purchased and reviewed an Environmental Lien Search report for the Subject Property, prepared by EDR, dated 15 March 2019 (see Appendix C);

- Obtained specialized knowledge of the Subject Property provided by the User of the Phase I ESA, in the form of responses to a User Questionnaire and from reports provided by the User;

- Performed a walk-through visual survey of the Subject Property on 10 April 2019, to observe the current site setting (see photographs in Appendix B).

2 GENERAL SITE CHARACTERISTICS

2.1 Site Location

The Subject Property is approximately 6.0 acres in area and is generally located east of North Shoreline Boulevard, south of Highway 101 and the Highway 101 southbound on-ramp, west of Linda Vista Avenue, and north of Terra Bella Avenue. In addition, the Subject Property is located approximately 2,200 feet west of Stevens Creek and the Stevens Creek Trail (see Figure 1). The Subject Property is located at 1001 North Shoreline Boulevard. The neighborhood is a mix of office, industrial, commercial, and residential buildings. EKI identified 11 addresses that were formerly associated with the Subject Property. In addition, the street currently known as North Shoreline Boulevard was previously known as Stierlin Road. Thus, the six former North Shoreline Boulevard addresses associated with the Subject Property were also associated with a Stierlin Road address of the same number.

The addresses formerly associated with the Subject Property include 1130 and 1150 Terra Bella Avenue; 1001, 1043, and 1091 North Shoreline Boulevard / Stierlin Road; and 1062 Linda Vista Avenue. Small portions of the 1160-1170 Terra Bella Avenue and 1015 and 1023 North Shoreline Boulevard properties are associated with the Subject Property (Figure 2).

2.2 Site Description and Current Site Uses

The Subject Property is currently occupied by parking, landscaped areas, and recreational amenities.

2.3 Adjoining Properties

This part of Mountain View is made up of a mix of commercial office and light industrial buildings, and residential areas. Highway 101 and the southbound on-ramp is located immediately to the north of the Subject Property. An office building that is located on the same parcel as the Subject Property is located adjacent to and immediately to the southwest of the Subject Property. In addition, two two-story office buildings are located to the north/northeast of the Subject Property. Directly to the east lies an office building as well as an industrial/office building and storage facility beyond Linda Vista Avenue. Office and commercial buildings and a Taco Bell restaurant are located beyond Terra Bella Avenue to the south. Office buildings are located to the west and southwest, beyond North Shoreline Boulevard. Further information about the area surrounding the Subject Property and adjoining properties observed during the site walk-through can be found below in Section 6.3.

3 ENVIRONMENTAL SETTING

Information on the environmental setting of the Subject Property was obtained from the following sources:

- *Final Revised Focused Feasibility Study, Former Spectra Physics Lasers, Inc., and Former Teledyne Semiconductor Sites, Mountain View, California,* prepared by Arcadis U.S., Inc., dated 31 July 2018 (Arcadis, 2018a).

- *Preliminary Soil Vapor Quality Evaluation*, 1001 North Shoreline Boulevard, Mountain View, California, prepared by Cornerstone Earth Group, dated 16 June 2015 (CEG, 2015a).

- *Additional Investigation Report, Former Texaco-branded Service Station 21-1179 975 North Shoreline Boulevard Mountain View, California,* prepared by Stantec, dated 16 December 2010 (Stantec, 2010a).

- *First Quarter 2010 Semi-Annual Groundwater Monitoring Report Former Texaco-branded Service Station 21-1179 975 North Shoreline Boulevard Mountain View, California,* prepared by Stantec, dated 16 December 2010 (Stantec, 2010b).

3.1 Regional Physiography and Geologic Conditions

The Subject Property is situated in the northern portion of the Santa Clara Valley along the edge of San Francisco Bay. The Santa Clara Valley is a gently northward sloping alluvial plain, flanked by the Diablo Range to the east-southeast and the Santa Cruz Mountains to the west-southwest. The Subject Property is located within the Santa Clara Valley Groundwater Basin and the northern portion of the Santa Clara sub-basin. The water-bearing formations of the Santa Clara subbasin include the Santa Clara Formation and the overlying younger alluvium, which together are greater than 1,500 feet thick (Arcadis, 2018a). The alluvium is considered the most important water-bearing unit in the Santa Clara subbasin and is comprised of unconsolidated gravel, sand, silt, and clay formed by a series of convergent alluvial fans (Arcadis, 2018a). A confined zone is present within the alluvium in the northern portion of the subbasin (and in the vicinity of the Subject Property) due to the presence of a low permeability clay layer (Arcadis, 2018a).

3.2 Soil and Geologic Conditions

EKI observed shallow soil on the Subject Property to approximately 15 feet bgs as part of Phase II sampling investigations conducted in March 2019, as described in Section 9 below. The Subject Property is generally underlain by interbedded layers of sand, clay with sand, sandy silt, and silty sand. In areas with asphalt parking surfaces, approximately 1 to 2 feet of sand is present directly beneath the asphalt surface, followed by clay with sand or sandy clay to approximately 10 feet bgs. The clay with sand unit has medium plasticity and varies from brown to dark gray as the depth from ground surface increases. Beneath this sandy clay is a layer of sand or silty sand, which is where shallow groundwater is generally first encountered under semi-confined

conditions at depths of approximately 12 to 15 feet bgs; the hydrostatic head of this groundwater, as measured during Phase II investigations conducted by EKI in March 2019, was approximately 6.7 to 12 feet bgs. Below this water-bearing layer, soil borings advanced by Stantec in 2010 describe medium stiff to very stiff lean clay with variable amounts of sand and sandy silt interbedded with layers of loose to very dense clayey sand and poorly graded sand, silt, and clayey sand reportedly present to a depth of 45 feet bgs (Stantec, 2010a). Very stiff clays and silts interbedded with thin layers of silty or clayey sand are reportedly present from a depth of 45 to 100 feet bgs (CEG, 2015a). Cornerstone Earth Group's ("CEG") soil data was based on a geotechnical investigation that was reportedly carried out in May 2014. EKI did not receive a copy of this investigation, and CEG's 2015 report does not provide other information as to specific locations throughout the Subject Property and the adjacent office building property where this soil data was collected.

3.3 Surface Water Characteristics

The Subject Property lies at a surface elevation of approximately 30 to 35 feet above mean sea level ("ft MSL") (USGS Mountain View Quadrangle, 1997). The majority of the Subject Property is covered with asphalt-paved parking areas, recreational areas (e.g., basketball court and volleyball court), and surrounding landscaped areas. Surface water runoff on the Subject Property presumably flows via the paved surfaces down to the street level and into onsite storm drains, in storm drains in the street gutters, or into a swale located along the northern boundary of the Subject Property. Surface water in the landscaped areas likely infiltrates into the ground. For more information regarding surface drainage and exterior observations at the Subject Property see Section 6.1.

3.4 Shallow Groundwater Characteristics

According to subsurface investigations that were carried out by Stantec in the area immediately southwest of the Subject Property, between February and October 2010, groundwater was encountered between 6.7 and 7.25 feet bgs. According to groundwater monitoring performed southwest of the Subject Property as part of the upgradient former Texaco investigations, groundwater beneath the Subject Property flows generally to the north (Stantec, 2010b). In addition, extensive groundwater monitoring activities carried out in relation to the nearby Former Teledyne Semiconductor/Spectra Physics Inc. Superfund Site, located approximately 650 feet west of the Subject Property, also indicate that shallow groundwater in the area of the Subject Property flows generally to the north (Arcadis, 2018a). During Phase II sampling activities conducted by EKI in March 2019, the hydrostatic head of groundwater was measured at approximately 6.7 to 12 feet bgs.

4 HISTORICAL LAND USE INFORMATION

Information on historical uses of the Subject Property and vicinity was obtained primarily from the following sources:

- Review of historical aerial photographs provided by EDR for selected years between 1939 and 2016 (see Appendix A).
- Review of historical USGS topographic maps provided by EDR for selected years between 1897 and 2012 (see Appendix A).
- Review of publicly available information for the Subject Property provided by the City of Mountain View Community Development Department Building Division and City of Mountain View Fire Department, Hazardous Materials Division, (see Appendix A);
- Review of historical City Directory information provided by EDR (see Appendix A).

According to EDR, Sanborn Fire Insurance maps for the Subject Property and surrounding area are not available.

4.1 Late 1890s through 1950s

On the 1897, 1899, and 1902 USGS topographic maps, the Subject Property and adjoining areas are generally depicted as vacant and undeveloped. Some small structures, likely farmhouses and other agricultural buildings are depicted sporadically in the areas to the north, east, south, and southwest of the Subject Property.

On the 1939, 1943, 1948, 1950, and 1956 aerial photographs, the Subject Property and adjoining properties are being used for agriculture. The Subject Property appears to have been used primarily for row crops. A large orchard is present directly to the west and southwest of the Subject Property. Several small structures, likely farmhouses and other agricultural buildings, are present on the northern portion of the Subject Property in the 1939 and 1943 photographs (along with what is currently North Shoreline Boulevard and Linda Vista Avenue). Additional structures of this type are present in the southern portion of the Subject Property in the 1948 through 1956 photographs. Residential structures formerly located on the Subject Property at the addresses of 1150 Terra Bella Avenue and 1015 North Shoreline Boulevard are among these additional structures that appear beginning in 1948.

Rows of trees in a gridded pattern that look like small orchards are present on portions roughly in the center of the Subject Property in the 1939 through 1956 photographs. Several likely farmhouses and agricultural buildings are located directly adjacent to the Subject Property to the southwest and north. Roads generally consistent with the current North Shoreline Boulevard and Highway 101 are present by 1939. In the 1956 aerial photograph, two large rectangular

greenhouses are located on the northern end of the Subject Property and extend to the north/northeast of the Subject Property.

4.2 1960s Through Present-Day

In the 1968 aerial photograph, the previously mentioned smaller structures remain on the northern portion of the Subject Property, but the agricultural activities characteristic of the Subject Property and surrounding areas appear to be diminishing. The orchard to the west is no longer present, and the adjoining properties to the east, northeast, southwest (1160 and 1170 Terra Bella), and south have been improved with commercial, industrial, and office buildings. The current US Highway 101 located to the north of the Subject Property has been expanded with additional lanes and the present-day cloverleaf interchange has been constructed at the location of the two large greenhouses.

In the 1974 aerial photograph, the former farmhouse/agricultural buildings remain on the northwestern portion of the Subject Property associated with the former address 1091 North Shoreline Boulevard. The western portion of the Subject Property associated with the former address 1043 North Shoreline Drive has been improved with a commercial building. The eastern portion of the Subject Property has been improved with the multi-tenant industrial/office building at the portion of the Subject Property associated with the former address 1062 Linda Vista Avenue. The adjoining properties to the east and southwest have been improved with the current commercial storage facility and office buildings and associated paved areas. The western portion of the Subject Property associated with 1023 North Shoreline Boulevard appears as a paved parking lot, with an office building that is not present until at least 1982. In addition, the adjacent office buildings currently located to the west of the Subject Property, beyond North Shoreline Boulevard, are present in the 1982 aerial photograph. The industrial building located at the portion of the Subject Property associated with the former address 1130 Terra Bella Avenue was also constructed by 1982.

By 1991, the Subject Property was improved with buildings and associated paved areas that were present until recent redevelopment activities from 2016 to 2018. The adjoining properties on all sides appear in their current configuration with the exception of the directly adjoining property to the northeast. The northern portion of this adjacent office/industrial building had been demolished and removed from the site by 1998. The southern portion of this building remains present in the 2005 aerial photograph, in addition to a new separate industrial/office building in the approximate space of the former structure. By 2005, the surrounding properties have been improved with their current configuration. One notable change is the addition of the Verizon cellphone tower that was constructed on the portion of the Subject Property associated with the former address 1062 Linda Vista Avenue in approximately 2014.

In the 2016 aerial photograph, the Subject Property appears to have been redeveloped, and all buildings present in the 2012 aerial photograph have been demolished. The current-day office building adjacent to the Subject Property to the southwest (not part of this Phase I ESA) is under construction, with a crane is visible on the property. A temporary construction building, trailers,

and vehicles are visible on the Subject Property, and the outlines of landscaping and parking areas currently present on the Subject Property are visible.

The following paragraphs summarize historic uses associated with the former addresses that comprise portions of the Subject Property:

1160 and 1170 Terra Bella Avenue
As depicted on Figure 2, only a small portion of this property is included in the Subject Property. This property was improved with a multi-tenant industrial/office building and associated asphalt driveways and parking areas. Former occupants include Plastic Center from 1968 through 1982, MHI in the mid-1980s, and Telewave Inc and Alto Design Group in the early 1990s. Oxigraf Inc. was the last tenant present prior to demolition of the building. Oxigraf's operations consisted of manufacturing fast laser diode oxygen analyzers and oxygen sensors. See Section 8.4.1.3 for more information obtained from the City of Mountain View Fire Department regarding on-site chemical usage and storage associated with this property. This property is now occupied by the adjacent office building with a small piece of landscaping on the Subject Property.

1015 North Shoreline Boulevard, formerly Stierlin Road
As depicted on Figure 2, approximately one-quarter of this property is included in the Subject Property. This property was improved with a single-family residential building on its western portion and associated paved driveway and landscaped areas. The central and eastern portion of this property was a paved parking area. Prior to redevelopment, this building was used as storage space for the restaurant located at 1005 North Shoreline Boulevard. Trash and debris, including wood and furniture scraps, old light fixtures, rusted metal parts, pieces of grills/stoves, parts of outdoor heating lamps, and cylinders of compressed gas, including propane, were stored on the exterior portions of this parcel. This property is now occupied by the adjacent office building with a small portion of parking and landscaping on the Subject Property that forms the entrance to the adjacent office building.

1023 North Shoreline Boulevard, formerly Stierlin Road
As depicted on Figure 2, approximately one-third of this property is included in the Subject Property. This property was improved with an unoccupied multi-tenant office building and associated asphalt driveways and parking areas prior to redevelopment. This property is now occupied by the adjacent office building with parking and landscaping on the portion that is part of the Subject Property.

1043 North Shoreline Boulevard, formerly Stierlin Road
As depicted on Figure 2, most of the property associated with the former address of 1043 North Shoreline Boulevard is located within the Subject Property. This portion of the Subject Property was improved with a multi-tenant office building and associated asphalt driveways and parking areas prior to demolition and redevelopment of the current asphalt parking and landscaping.

1150 Terra Bella Avenue

This property was improved with an unoccupied single-family residential building on its southern portion, a storage shed, and associated paved driveway and landscaped areas. Several free-standing storage shed structures and a small chicken coop were located to the north of the main residential building. The majority of the northern portion of the area was a paved parking area. This parcel is currently occupied by parking associated with the adjacent office building.

1062 Linda Vista Avenue

This property was improved with a multi-tenant industrial/warehouse/office building and associated asphalt driveways and parking areas. It was occupied by various electronics testing companies since at least the 1960s, with Haltek Electronics Test Lab Co being the most recent identified former occupant from 1975-1991. This building was unoccupied at the time of redevelopment from 2016 to 2018. The exterior area of this property to the east of the building is a fenced off area that houses a Verizon cell-phone tower. See Section 8.4.1 for more information obtained from the City of Mountain View Fire Department regarding on-site chemical usage and storage associated with the cellular tower. This parcel is currently occupied by the cell tower and parking associated with the adjacent office building.

1130 Terra Bella Avenue

This parcel was improved with an unoccupied industrial/office building and associated asphalt driveways and parking areas. Identified former occupants included International Semiconductor Technologies and Mesa Technologies (AKA Olin Mesa Corporation) from 1986 to 1991. Datanet was observed as the most recent occupant. This parcel is currently occupied by parking associated with the adjacent office building.

1091 North Shoreline Boulevard, formerly Stierlin Road

This parcel was improved with an industrial/office building and associated asphalt driveways and parking areas prior to demolition and redevelopment of the current asphalt parking and landscaping.

5 RESULTS OF PRIOR SITE INVESTIGATIONS

The User provided EKI with nine previous Phase I ESAs, one combined Phase I/Phase II ESA report, and one Preliminary Soil Vapor Quality Evaluation that were completed for all or portions of the Subject Property. The results of these previous reports are summarized below.

5.1 Summary of Findings of Prior Phase I and II ESA for 1005 & 1015 North Shoreline Boulevard and 1150 Terra Bella Avenue

As discussed above and depicted in Figure 2, a portion of the property associated with the former address of 1015 North Shoreline Boulevard is located on the Subject Property, the property associated with the former address of 1150 Terra Bella Avenue is located entirely within the Subject Property, and the property associated with the former address of 1005 North Shoreline Boulevard is located offsite and to the southwest of the Subject Property. At the time that ERS completed this combined Phase I/Phase II ESA (ERS, 2011) on behalf of Calvano Development, the sites were improved with a retail building (Fiesta Del Mar restaurant) as well as two residential dwellings. Based on the age of the buildings, ERS noted a potential presence of asbestos-containing materials and/or lead based paint. The identified off-site adjoining leaking underground storage tank ("LUST") case to the south located at 975 North Shoreline Boulevard was in the process of receiving closure. ERS indicated that this release had impacted the properties and constituted a REC. ERS also indicated that indoor air sampling results at 1015 North Shoreline did not show that significant vapor intrusion was occurring as a result of impacted groundwater onsite. ERS did not specify what constituents were tested for or the concentration of the constituents in this indoor air sampling event. ERS concluded that this LUST closure was in the public review comment period, that the current Subject Property owner was not identified as a responsible party, and that the responsible party (Texaco) had issued an indemnification letter to the current property owner, which is transferable to future property owners. A copy of this letter is included in Appendix D.

In addition, ERS identified the closed LUST case associated with the Shippen Property located at 1175 Terra Bella Avenue, south of the Subject Property. ERS indicated that low levels of petroleum contamination were identified in groundwater samples collected at the Subject Property from a soil boring (DP-3) located at the southwestern corner of 1150 Terra Bella Avenue at the time of closure. However, ERS indicated that these identified concentrations were below applicable environmental screening thresholds and the LUST case achieved regulatory closure. See Section 8.3.3 for EKI's summary of the 1175 Terra Bella Avenue LUST case. ERS concluded that this release had not significantly impacted the Subject Property and that no additional action was necessary, and classified the condition as an HREC.

As part of a Phase II Investigation conducted in March 2011, ERS advanced four hand auger borings to a maximum depth of three feet bgs in the areas near where materials including paints and lubricants were observed in the fenced-in area to the north and east of the residential building located at 1015 North Shoreline Boulevard. The ERS report does not include a figure showing these borehole locations, but based on the description of the borehole locations, it is

likely that some or all of these boreholes were located on the Subject Property. Soil samples were collected from 0.5 and 2.5-3 feet bgs and submitted for VOC analysis. No VOCs were detected in any of the soil samples and ERS did not recommend additional sampling activities at that time.

ERS also noted that an open drinking water well was located on 1150 Terra Bella Avenue portion of the Subject Property. This well was reportedly not in use at the time of the investigation. ERS noted that this well did not constitute a REC but could act as a potential conduit for contamination to enter or migrate through the groundwater. ERS recommended that this well be properly sealed by a licensed well driller.[2]

5.2 Summary of Findings of Prior Phase I ESA for 1023 North Shoreline Boulevard

As discussed above and depicted on Figure 2, a portion of the property associated with former address of 1023 North Shoreline Boulevard is located on the Subject Property. According to the Phase I ESA that was performed on behalf of Calvano Development (AWR, 2013a), Applied Water Resources ("AWR") indicated that the building at this address was constructed in approximately 1974 and appears to have been used as offices since that time. Based on the age of the building, AWR noted the potential presence of that asbestos-containing materials and/or lead-based paint. AWR also noted that the site was near, but did not appear to be impacted by, several known solvent releases impacting groundwater over a large area west of North Shoreline Boulevard.

AWR identified one former groundwater monitoring well (MW-22H) that was installed near the northern edge of the 1023 Shoreline Boulevard, on the Subject Property, in 1990 during the investigation of a LUST case at the former Texaco Station at 975 Shoreline Boulevard. Groundwater sampling conducted from 1990 through 1992 revealed gasoline impacts in the groundwater samples from MW-22H. The concentrations decreased following remediation activities. Between 1992 and 1994, the concentrations of gasoline and related constituents in the groundwater samples collected from MW-22H dropped significantly and stabilized at lower concentrations. AWR (2013a) indicates that from 2002 onward, TPHg and related constituents were not detected in any of the groundwater samples collected from MW-22H during 30 separate groundwater monitoring events. This site achieved regulatory closure in July 2011. See Section 8.3.4 for EKI's summary of the former LUST case at 975 Shoreline Boulevard. AWR classified this former impact as a HREC and did not recommend additional investigation of the 1023 North Shoreline Boulevard portion of the Subject Property.

[2] According to a well completion report provided to EKI by the DWR, this well was abandoned in September 2011 under permit by the SCVWD. See Section 8.4.6 for a description of the well abandonment records provided by the DWR.

5.3 Summary of Findings of Prior Phase I ESA for 1043 Shoreline Boulevard

As discussed above and depicted on Figure 2, most of the property associated with the former address of 1043 North Shoreline Boulevard is located within the Subject Property. According to the Phase I ESA that was performed on behalf of Calvano Development (AWR, 2013b), AWR indicated that the 1043 North Shoreline Boulevard portion of the Subject Property was improved with an office building since approximately 1970 and that it was used as orchards and a residence prior to that time. Aside from general office usage, AWR also observed a space within the building that appeared to have been used as a small research laboratory, although this space was unoccupied at the time of the ESA. According to AWR (2013b), based on the age of the building, there was a potential presence of asbestos-containing materials and/or lead-based paint.

AWR noted the groundwater sampling events described above in the Phase I ESA for 1023 N Shoreline Boulevard (the adjacent portion of the Subject Property to the south). AWR classified this former impact to the up-gradient offsite location as a HREC. AWR also concluded that the site did not appear to be impacted by several known solvent releases impacting groundwater over a large area west of North Shoreline Boulevard. AWR did not recommend additional investigation of the 1043 North Shoreline Boulevard portion of the Subject Property.

5.4 Summary of Findings of Prior Phase I ESA for 1062 Linda Vista

According to the Phase I ESA that was completed on behalf of Calvano Development (AWR, 2013c), AWR indicated that the former warehouse/industrial building at the 1062 Linda Vista Avenue portion of the Subject Property was occupied by an instrument and electronics company from its time of construction in the 1960s through the 1970s. It was then used as a retail store for electrical components in the 1980s through 1990s. Since that time, it was used primarily for storage of clothing, artwork, supplies, and equipment purchased from storage locker auctions. According to AWR (2013c), based on the age of the building, there was a potential presence of asbestos-containing materials and/or lead-based paint. AWR also concluded that the property did not appear to be impacted by several known solvent releases impacting groundwater over a large area west of North Shoreline Boulevard.

According to AWR (2013c) the property owner and occupant of 1062 Linda Vista Avenue indicated that their procedure was that any chemicals discovered in their purchased collections do not enter the building; rather they are stored outside at the rear of the facility for a short time and then taken to a household hazardous waste collection. At the time of the ESA, chemicals observed inside the building were limited to various paints, lubricants, and cleaners used to clean and repair purchased items for subsequent resale. A hazardous material storage cabinet was observed in the north-central part of the building. All of the containers in the building appeared to be 1-gallon or less retail size containers and AWR did not observe evidence of a release but recommended that additional visual assessment be conducted once the building had been cleared of its contents.

AWR indicated that a Verizon Wireless tower was constructed at the site in a fenced enclosure behind the building in September 2013 and appeared to be in very good condition. AWR was unable to enter the fenced enclosure during the site reconnaissance, but based on observations from the perimeter, a generator with an attached 132-gallon diesel tank was identified as well as signage indicating the presence of batteries for emergency backup power. AWR observed no evidence of a spill or release associated with the wireless tower and support operations at the site. AWR did not recommend additional assessment for the 1062 Linda Vista Avenue portion of the Subject Property.

5.5 Summary of Findings of Prior Phase I ESA for 1160-1170 Terra Bella Avenue

As discussed above and depicted on Figure 2, a portion of the property associated with 1160-1170 Terra Bella Avenue is located on the Subject Property. According to the Phase I ESA that was completed on behalf of Calvano Development, AWR indicated that the office/industrial building located at this address at the time of the ESA was constructed in approximately 1960 (AWR, 2014a). According to AWR (2014a), based on the age of the building, asbestos-containing materials and/or lead-based paint were potentially present. AWR did not identify significant hazardous material use or storage in the building during the course of their investigation.

AWR indicated that a monitoring well was installed just off of the southeastern corner of the 1160-1170 Terra Bella Avenue property for the investigation associated with a release originating on the property directly south of the subject site at 1175 Terra Bella Avenue. For more information regarding this former LUST case, see Section 8.3.3. In addition, monitoring wells were installed on the properties west of 1160-1170 Terra Bella Avenue for the investigation associated with a release of gasoline from the former LUST site located at 975 Shoreline Boulevard. For more information regarding this former LUST case, see Section 8.3.4. AWR indicated that no sampling appears to have been done on the 1160-1170 Terra Bella Avenue property for either of the releases. AWR concluded that since both of these off-site releases had achieved regulatory closure, and that the Subject Property was never named as a possible source of the impacts, potential impacts from the former LUST sites are classified as an HREC. AWR also concluded that the 1160-1170 Terra Bella Avenue portion of the Subject Property did not appear to be impacted by several known solvent releases impacting groundwater over a large area west of North Shoreline Boulevard. AWR did not recommend additional investigation or identify ongoing continuing obligations of this portion of the Subject Property.

5.6 Summary of Findings of Prior Phase I ESA for 1130 Terra Bella Avenue

According to the Phase I ESA that was completed on behalf of Calvano Development (AWR, 2014b), at the time of the ESA this portion of the Subject Property was improved with an office/warehouse building. In addition, AWR noted that based on the age of the building, asbestos-containing materials and/or lead-based paint were potentially present. AWR indicated that three monitoring wells (MW-1, MW-2, and MW-3) were installed at the 1130 Terra Bella Avenue portion of the Subject Property in August 1988 to evaluate the potential of the Subject Property to have been a contributor to the regional groundwater impacts in the area. AWR

identified documents indicating that VOCs had been stored at the 1130 Terra Bella Avenue portion of the Subject Property in the past. In 1989, the Mountain View Fire Department granted Olin Mesa Corporation a facility closure for the hazardous materials stored and used at 1130 Terra Bella Avenue.

According to the most recent groundwater sampling of wells MW-1, MW-2, and MW-3 (Figure 2) that was performed on 27 July 2005, TCE and cis-1, 2-DCE were detected at respective concentrations of 46 ug/L and 9.0 ug/L in samples from well MW-3, which was located on the upgradient portion of 1130 Terra Bella Avenue. These values were above the ESLs for drinking water applicable at that time, but below applicable ESLs for vapor intrusion for residential/unrestricted land use (RWQCB, 2013). AWR concluded based on the relative concentrations detected in the three wells, it was likely that the source of the VOC contamination was from an upgradient, offsite source.

AWR did not identify evidence of this portion of the Subject Property being an agency-listed site and concluded that there had been no identified release of hazardous materials onto the 1130 Terra Bella Avenue portion of the Subject Property. AWR (2014b) further concluded that the groundwater contamination detected in the onsite monitoring wells appeared to be the result of the migration of VOCs from an upgradient, off-site source and that the source of the chlorinated solvent impacts had not been conclusively determined at the time of this investigation. AWR concluded that the unresolved impacts, regardless of whether the source was on or off the Subject Property, constituted a REC. In addition, AWR identified an agreement establishing a restriction prohibiting the use of chlorinated solvents at the 1130 Terra Bella Avenue portion of the Subject Property was recorded in connection with the sale of the property in 2005.[3]

5.7 Summary of Findings of Prior Phase I ESA for 1091 North Shoreline Boulevard

According to this Phase I ESA that was completed on behalf of Calvano Development, at the time of the ESA, this portion of the Subject Property was improved with a two-story multi-tenant office building (AWR, 2014c). According to AWR (2014c), based on the age of the building, asbestos-containing materials and/or lead-based paint were potentially present. AWR noted that prior to the construction of that building, the 1091 North Shoreline Boulevard portion of the Subject Property had been used in part for orchards going back to at least 1939. AWR indicated that the site did not appear to have been impacted by several known solvent releases impacting groundwater over a large area west of Shoreline Boulevard. AWR did not recommend further investigation or identify ongoing continuing obligations for the 1091 North Shoreline Boulevard portion of the Subject Property.

[3] A copy of the 2005 agreement is provided in Appendix C. EKI notes that this private-party agreement has since been voided.

5.8 Summary of Findings for Preliminary Soil Vapor Quality Evaluation for 1001 North Shoreline Boulevard (CEG, 2015a)

On 11 May 2015, CEG installed four dual-depth vapor probes (SV-1 through SV-4) within the footprint of the planned 4-story office building that is currently located immediately west of the Subject Property. Soil vapor probes were installed at depths of approximately 4 to 5 and 9 to 9.5 feet bgs, in order to collect soil vapor samples from the subsurface (CEG, 2015a). CEG collected a total of seven soil vapor samples on 14 May 2015; one each from the upper and lower probes at locations SV-2 and SV-3, two from the upper probe at location SV-1, and one from the upper probe at location SV-4. Low flow conditions reportedly prevented the collection of samples from the lower probes at locations SV-1 and SV-4. These soil vapor samples were subsequently analyzed for VOCs, total petroleum hydrocarbons-gasoline (TPHg), carbon dioxide, oxygen, and methane. Key findings from the soil vapor quality evaluation are summarized below:

- Benzene was detected above laboratory reporting limits in 5 samples and exceeded the current residential and commercial/industrial ESLs of 3.2 and 14 micrograms per cubic meter ("ug/m^3"), respectively, in the samples collected from location SV-2 at 69 ug/m^3 and location SV-4 at 99 ug/m^3.

- PCE was detected above the current residential and commercial/industrial ESLs of 15 and 67 ug/m^3, respectively, in both of the samples collected from the shallow probe at the SV-1 location. The concentrations in the initial and duplicate SV-1 samples were 720 ug/m^3 and 740 ug/m^3, respectively. PCE was not detected in the other soil vapor samples analyzed.

- TCE was detected above the current residential ESL of 16 ug/m^3 of in both of the samples collected from the shallow probe at the SV-1 location at a concentration of 91 ug/m^3, which was less than the current commercial/industrial ESL of 100 ug/m^3. TCE was not detected in the other soil vapor samples analyzed.

- Chloroform was detected at concentrations above the 2015 residential and commercial ESLs of 4.1 and 18 ug/m^3, respectively, in samples collected from the shallow probe at the SV-3 location (41 ug/m^3) and the probe at the SV-4 location (66 ug/m^3). Chloroform was not detected in the other soil vapor samples analyzed.

- TPHg and other VOCs were detected but in concentrations below the respective residential and commercial screening levels for potential vapor intrusion risk.

- Oxygen concentrations ranged from 2.6% to 18% and carbon dioxide ranged from 0.86% to 16% in the soil vapor samples. Methane was not detected in any soil vapor samples.

CEG concluded that vapor intrusion mitigation measures did not appear to be required based on the planned commercial development;[4] however, a liner was installed under the current commercial building constructed adjacent to the Subject Property between 2016 and 2018.

5.9 Summary of Findings of Prior Phase I ESA for 1001 North Shoreline Boulevard by Langan

Langan Engineering and Environmental Services, Inc. ("Langan") prepared a Phase I ESA for the Subject Property in April 2018 (Langan, 2018). At the time of the Phase I, Langan observed that the Subject Property had been recently redeveloped, and the office building adjacent to the Subject Property was under construction and vacant. Langan did not identify any RECs at the Subject Property but identified two Controlled Recognized Environmental Conditions ("CRECs"), which are RECs resulting from past releases that have been addressed to the satisfaction of the applicable regulatory agency and allowed to remain in place subject to the implementation of controls (including land use restrictions, engineering controls, etc.). The CRECs identified by Langan were as follows:

- VOCs in soil gas and groundwater were detected above the ESLs and were attributed to upgradient sources that migrated onto the Subject Property. Langan referenced the mitigation measures in the Site Management Plan ("SMP") prepared by CEG and approved by the Santa Clara County Department of Environmental Health ("SCCDEH"), including the vapor barrier installed in the adjacent office building, as controls justifying the designation of the soil gas and groundwater as a CREC.

- The former acid neutralization sump located in the eastern portion of the Subject Property was used to neutralize acids prior to discharge to the sanitary sewer system. In 1987, following a fire and termination of the industrial waste discharge permit, the sump was removed. Groundwater monitoring wells were installed upgradient and downgradient of the sump, and TCE was detected in groundwater above the ESL of 5 ug/L. The highest concentration of TCE was detected in in the upgradient monitoring well. The site achieved regulatory closure by the City of Mountain View Fire Department. Langan classified the sump as a CREC.

[4] The data listed above are compared to current ESLs, which are more stringent than the 2013 ESLs. The VOC concentrations in the soil vapor samples collected by CEG were all below than the 2013 commercial ESLs.

6 RESULTS OF SITE WALK-THROUGH VISUAL SURVEY

On 10 April 2019, Jacki Lee of EKI conducted a visual reconnaissance of the Subject Property. Ms. Lee conducted the site walk-through under the supervision of James Yoon, an Environmental Professional as defined in 40 CFR Section 312.10, and as accepted by ASTM 1527-13 (see resume in Appendix F). The majority of the Subject Property is parking and landscaped areas with recreational amenities. The building currently present at 1001 North Shoreline Boulevard is not included in the Subject Property and is currently occupied by Google.

Observations of the Subject Property and adjoining areas are discussed below. Selected photographs taken during the walk-through of the Subject Property are presented in Appendix B of this report.

The Subject Property consists of parking lots, driveways, landscaped areas, pathways, a basketball court, and a volleyball court. The area immediately to the southwest of the Subject Property is occupied by a new four-story office building with the street address of 1001 North Shoreline Boulevard; the building and the property immediately west and south of the building are not included in the scope of this Phase I ESA.

Stormwater on the Subject Property infiltrates to the subsurface in the landscaped areas. Within the paved parking areas and roadways, stormwater is directed towards culverts located along the asphalt to a subgrade stormwater collection system.

A fenced-in area containing a Verizon cellphone tower and associated equipment was observed near the center of the Subject Property in a location associated with the former 1062 Linda Vista Avenue address. This area was locked and EKI was unable to enter and inspect the area. From outside of the fenced area, EKI observed a diesel-storage tank labeled with a 132-gallon capacity. No evidence of leaks or spills were observed.

Outside of the diesel tank located within the Verizon cellphone tower area, EKI did not observe hazardous substances, unidentified substances, petroleum products, or containers of either hazardous or unidentified substances or petroleum products, odors, storage tanks, pools of liquid, drums, stains, corrosion or stained soil/pavement, sumps, ponds, pits or lagoons, stressed vegetation, solid waste, or wells.

Electrical transmission at the Subject Property is located underground; no pole-mounted transformers were observed in the area of the Subject Property. During a prior site visit by EKI to the Subject Property in 2015, prior to demolition, a pad-mounted transformer was observed southeast of the building formerly located at the 1091 North Shoreline Boulevard portion of the Subject Property. Significant dark staining was observed around the pad-mounted transformer (see Figure 2). This staining appeared to be emanating from the base of the transformer and over the concrete pad and into the surrounding planter/landscaped area. The transformer was not labeled with respect to PCB content. To determine whether transformer oil and PCBs may have

been released to the soil surrounding this transformer pad, soil samples were collected from the area as part of the Phase II investigations described in Section 9.2.1 below.

EKI observed evidence of drilling and sampling immediately south of the Subject Property, on the north side of Terra Bella Avenue. This sampling is likely associated with that requested by SCCDEH for the 1155 Terra Bella Avenue site (see Section 8.3.2).

6.1 Surrounding Areas

This part of Mountain View is made up of a mix of commercial, office, industrial, and residential buildings. Highway 101 and associated on-ramps are located immediately north of the Subject Property.

To the west, beyond North Shoreline Boulevard lies paved parking and landscaped areas that surround two large industrial/office buildings. The buildings located at 1274 and 1212 Terra Bella Avenue are currently occupied by Teledyne Technologies Inc. and Iridex Corporation, respectively.

To the southwest of the Subject Property, beyond the intersection of North Shoreline Boulevard and Terra Bella Avenue, lies an additional large industrial/office building and associated paved and landscaped areas that is identified as 1215 Terra Bella Avenue, and is currently occupied by Glowlink Communications Technology, Inc.

To the south beyond Terra Bella Avenue lie several commercial, office, and industrial buildings and associated paved and landscaped areas. These buildings include a commercial building occupied by Taco Bell located at 975 North Shoreline Boulevard, an apparently vacant industrial/office building located at 1175-1185 Terra Bella Avenue, a vacant commercial building located at 1155 Terra Bella Avenue, and an office/industrial building that is occupied by Amaranth Medical located at 1145 Terra Bella Avenue.

To the east lies a vacant office building located at 1110 Terra Bella Avenue and an office building occupied by Terra Bella Academy located at 1012 Linda Vista Avenue. The western wall of this building directly adjoins the Subject Property. To the east, beyond Linda Vista Avenue is Design Spaces Co-working Office located at 1045 Linda Vista Avenue and a commercial storage facility occupied by Public Storage and located at 1040 Terra Bella Avenue. Directly adjoining the Subject Property to the northeast (north of 1062 Linda Vista Avenue and east of 1091 North Shoreline Boulevard) lie two office/commercial buildings and associated paved and landscaped areas located at 1066 and 1080 Linda Vista Avenue occupied by the Church of Scientology. Stevens Creek is located approximately 2,200 feet to the east of the Subject Property.

7 INFORMATION PROVIDED BY USER AND OWNER

According to the ASTM E 1527-13 standard, certain tasks that may help identify the presence of RECs associated with the Site are generally conducted by the Phase I ESA User. These tasks include: providing, or authorizing the *environmental professional* to obtain recorded land title records for environmental liens or activity and land use limitations; providing specialized knowledge related to RECs at the Site (e.g., information about previous ownership or environmental litigation); providing commonly known or *reasonably ascertainable* information within the local community about the *property* that is material to RECs in connection with the *property*; and informing the *environmental professional* if, as believed by the User, the purchase price of the *property* is lower than the fair market value due to contamination. A completed User Questionnaire as well as previous reports have been received and information has been incorporated, as appropriate, into this Phase I ESA report.

7.1 Results of Environmental Lien Search

EKI purchased from EDR an environmental lien search report for the Subject Property using APN 153-15-032. A copy of the EDR lien search report, dated 15 March 2019, is included in Appendix C of this report. EDR found no records of environmental liens filed or recorded against the Subject Property, or any Activity and Use Limitations ("AULs") recorded for the property.

8 RESULTS OF REGULATORY AGENCY FILE REVIEWS

To identify conditions indicative of releases and threatened releases of hazardous substances on, at, in, or to the Subject Property, i.e., known or potential contamination of soil or groundwater, or reported chemical use, EKI contracted with EDR to perform a search of available, selected federal, state, and local environmental regulatory agency databases. EDR performed a search for the Subject Property area and properties located within selected radii of the Subject Property. A copy of the resulting "radius map report" provided by EDR is located in Appendix E. Refer to the EDR report for a complete list of the federal, state, and tribal databases searched.

8.1 Results of EDR Database Search for Subject Property

According to the EDR Report, two of the former addresses associated with the Subject Property are listed on various regulatory agency databases. Olin Mesa Corporation, formerly located at 1130 Terra Bella Avenue, was identified on the RCRA-SQG, FINDS, and CA EMI databases. McCandless Land and Cattle Company, formerly located at 1091 North Shoreline Boulevard, was identified on the CA HAZNET database. Specific information regarding these on-site facilities as presented in the EDR Report are discussed below.

Olin Mesa Corporation (1130 Terra Bella Avenue):

> Listed as a Small Quantity Generator of hazardous materials in 1986 and 1990 under the EPA ID#: CAD981395205. Listed on the FINDS database with the registry ID: 110002692676. Listed on the CA EMI database in 1987 as facility ID 2136 within the Bay Area AQMD. Olin emitted 9 tons/year of Total Organic Hydrocarbon Gases, 5 tons/year of Reactive Organic Gases, 1 ton/year of Particulate Matter, and 1 ton/year of Particulate Matter 10-micrometers and smaller. No violations associated with these database listings were reported.

McCandless Land and Cattle Company (1091 North Shoreline Boulevard):

> In 1999 McCandless was listed on the CA HAZNET database for being in the waste category of "Waste oil and mixed oil" with the disposal method listed as "other". McCandless reportedly disposed of .0834 tons of hazardous material. McCandless was identified by the following ID numbers: Envid #: S112905361; GEPAID#: CAC002223889; TSD EPA ID#: CAD059494310. No violations associated with this database listing were reported.

The information in the EDR Report indicates that chemicals were used or stored, and/or that hazardous wastes were generated at in certain areas of the Subject Property. In addition, the EDR indicates that particulate matter was emitted from the Subject Property. The database listings, however, do not indicate documented releases of chemicals at the facilities.

8.2 Off-Site Properties with Reported Chemical Use

As discussed in Section 3.3, groundwater in the vicinity of the Subject Property flows to the north towards San Francisco Bay.

Based on the EDR Report, the following facilities, which are located within approximately one-quarter mile and up-gradient (generally to the south) of or adjacent to the Subject Property, are listed on specific chemical use, storage, or disposal regulatory agency databases, or other databases of potential environmental concern. These facilities are listed in the order of increasing distance from the Subject Property, as reported by EDR.

Site Name	Site Address	Regulatory Agency Databases	Approximate Distance and Direction based on EDR
ADVANCED MARINE SERVICE	1049 LINDA VISTA AV	CUPA Listings	0.009 E
CSI MOUNTAIN VIEW GARD-MORE CIRCUITS INC COMM. BLDG ROBB-JACK CORP.	**1066/1080 LINDA VISTA AVENUE**	**RCRA-SQG, CPS-SLIC, CERS, RCRA-SQG, FINDS, ECHO, CA FID UST, SWEEPS UST, HIST LUST, HIST CORTESE, CERS, HIST UST**	**0.009 ENE**
FORMER TELEWAVE PROPERTY	**1155 TERRA BELLA AVE**	**CPS-SLIC, CUPA Listings**	**0.016 SSE**
SHIPPEN PROPERTY	**1175 TERRA BELLA**	**LUST, HIST LUST, HIST CORTESE, CERS**	**0.017 S**
TEXACO EXXON TEXACO (CVX #21-1179)	**975 SHORELINE (STIERLIN RD) BLVD**	**LUST, HIST LUST, CA FID UST, SWEEPS UST, HIST CORTESE, CERS**	**0.022 SSW**
HARRIS BROADCAST MICROWAVE OPR RITA MEDICAL SYSTEMS INC INTRA PACE INC	967 STIERLIN RD	RCRA-SQG, FINDS, ECHO, CUPA Listings	0.030 SSW
EXXON	925 SHORELINE	HIST CORTESE	0.066 SSW
GOOGLE LLC - 946	946 LINDA VISTA AVE	HAZNET, CERS, CERS HAZ WASTE	0.097 SSE
FARINON ELEC INC ABBOTT LAB HOSPITAL PRODUCTS DIV ABLE ELECTRONICS CORP HARRIS BROADCAST MICROWAVE OPE	960 LINDA VISTA AVE	RCRA-SQG, FINDS, ECHO, CUPA Listings, HIST UST	0.097 SSE
SHORELINE SHELL #59	**807 N SHORELINE BLVD**	**UST, LUST, HIST CORTESE, CERS, RCRA-SQG, FINDS, ECHO, CUPA Listings, HAZNET, CA FID UST, SWEEPS UST, HIST UST, CERS TANKS, CERS HAZ WASTE**	**0.141 S**
BILL BAILEY CHEVRON #9-6377	**808 N SHORELINE BLVD**	**HIST UST, UST, CA FID UST, LUST, SWEEPS UST, CERS, RCRA-SQG, FINDS, ECHO, CUPA Listings, CPS-SLIC, HIST CORTESE, NON-CASE INFO, CERS TANKS, CERS HAZ WASTE**	**0.145 SSW**
HADAD PETORLEUM INC DBA MOUNTAIN VIEW ARCO	**790 N SHORELINE BLVD**	**UST, CA FID UST, CUPA Listings, HAZNET, SWEEPS UST, CERS, CERS HAZ WASTE, RCRA-SQG, FINDS, ECHO, UST, DEED, Notify 65, LUST, HIST LUST, HIST CORTESE, CERS TANKS**	**0.182 SSW**

The above-listed facilities at the addresses shown are included on regulatory agency databases that reflect use and storage of chemicals, as well as off-site disposal of hazardous wastes. It should be noted that only those sites indicated above in **bold** are located up-gradient (generally to the south) or adjacent to the Subject Property and reported by EDR as a release site. These sites are discussed in Section 8.3 below. Adjacent and nearby properties that are identified by the EDR but do not have identified releases do not present an environmental concern for the Subject Property.

8.3 Off-Site Properties with Reported Chemical Releases

According to the EDR Report, there are seven reported release sites located in the proximity of (within approximately one-quarter of a mile) and potentially up-gradient of (generally to the south) or adjacent to the Subject Property with regard to reported shallow groundwater flow direction. EKI has also included the downgradient property located at 1066/1080 Linda Vista Avenue given that it is located adjacent to the Subject Property.

EKI reviewed potentially relevant information for the reported release sites available on the SWRCB on-line GeoTracker database as well as the California Department of Toxic Substances Control's ("DTSC's") on-line EnviroStor database, Santa Clara Valley Water District's ("SCVWD's") online historic solvent case files database, and the SCCDEH Local Oversight Program online database when GeoTracker files were not available. A summary of these off-site reported release sites and the potential for impacts to the Subject Property are discussed below.

8.3.1 *Review of CSI Mountain View/Gard-More Circuits/Robb-Jack Corp Site Files (1066/1080 Linda Vista Avenue)*

The CSI Mountain View/Gard-More Circuits/Robb-Jack Corp. site is located adjacent to the Subject Property to the northeast and is downgradient of the eastern portion of the Subject Property. EKI reviewed the Underground Storage Tank Case Closure Letter for the Robb-Jack Corp. site, dated 26 June 1996, available on the GeoTracker website (RWQCB, 1996).

According to closure documentation, the site was identified as a LUST in May 1986 due to a 1,000-gallon gasoline UST that was observed to have holes at the time of removal. The "most affected soil" associated with the UST was reportedly excavated in 1986 and again in 1994, and confirmation soil sampling was performed following excavation in 1994. Three groundwater monitoring wells were installed and sampled 12 times between 1990 and 1994. In 1994, the maximum detected concentrations of TPHg and associated VOCs were reported as follows: TPHg (200 ug/L), benzene (3.5 ug/L), toluene (0.72 ug/L), and xylene (1.4 ug/L) (RWQCB, 1996). The site achieved regulatory closure in 1996.

In the *Limited Phase II Grab Groundwater Sampling Activities and Conceptual Site Model* report, SCS stated that previous sampling was conducted at the property in 2008 and identified TCE, PCE, and breakdown products in soil and groundwater, and based on these partial results (not

included in the SCS report), SCS performed additional sampling at the property in 2016 (SCS, 2016). Maximum concentrations of PCE and TCE in groundwater in 2016 were 76 ug/L (near the northeastern Subject Property boundary) and 180 ug/L (in the southeastern corner of 1080 Linda Vista Avenue), respectively (SCS, 2016). Sub-slab soil gas concentrations under the 1066 Linda Vista Avenue building of chlorinated VOCs such as PCE (up to 2,900 ug/m^3) and TCE (up to 420 ug/m^3) were above the residential and commercial land use ESLs applicable at that time (SCCDEH, 2018a). Based on the results of indoor air sampling conducted in the 1066 Linda Vista Avenue building, the SCCDEH determined that the concrete slab at the building was providing sufficient protection from vapor intrusion, and the site achieved regulatory closure in 2018 (SCCDEH, 2018a). The VOCs detected in groundwater on 1066/1080 Linda Vista Avenue appear to be comingled with the plume originating from 1155 Terra Bella Avenue (see Section 8.3.2), but additional sources originating on the 1066/1080 Linda Vista Avenue property may be present.

8.3.2 *Review of Former Telewave Property Site Files (1155 Terra Bella Avenue)*

The Former Telewave Property site is located adjacent and to the south of the eastern portion of the Subject Property, just south of Terra Bella Avenue. EKI reviewed a Phase I & II Environmental Site Assessment for the Former Telewave Property site, dated 15 November 2016 (WHA, 2016). The site was used for fabrication of radio equipment from the 1980s to 2008; from 2008 to 2016 the site was used as storage (WHA, 2016). Manufacturing activities at the site included acid etching, painting, and assembly of metal parts. According to the Phase I & II report, a UST was reportedly removed from the site prior to 2016, although documentation for the UST removal was unavailable (WHA, 2016). The UST may have been used to store solvents. Soil, soil gas, and groundwater at the site were impacted with chlorinated VOCs including TCE, PCE, cDCE, and vinyl chloride (WHA, 2016). Maximum concentrations of compounds in groundwater during the 2016 investigation included TCE at 6,600 ug/L, PCE at 26 ug/L, cDCE at 1,500 ug/L, tDCE at 280 ug/L, and vinyl chloride at 32 ug/L. Maximum concentrations of compounds in soil during the 2016 investigation included TCE at 72 milligrams per kilogram ("mg/kg") and cDCE at 0.5 mg/kg. Maximum concentrations of compounds in soil gas during the 2016 investigation included TCE at 25,000 ug/m^3, PCE at 770 ug/m^3, and TPHg at 140,000 ug/m^3 (WHA, 2016).

In October 2018, SCCDEH requested that the property owner perform groundwater sampling on the north side of Terra Bella Avenue, immediately south of the Subject Property, to characterize the extent of VOCs in groundwater (SCCDEH, 2018b). Based on a conversation with WHA on 11 April 2019, EKI understands that the sampling has been performed and the data verify that the VOCs in groundwater from 1155 Terra Bella Avenue extend to the Subject Property.

Given the proximity, the groundwater flow direction, and concentrations of chlorinated VOCs in groundwater, a plume of chlorinated VOCs including TCE, cDCE, and vinyl chloride is migrating from the 1155 Terra Bella Avenue site to the Subject Property. The March 2019 Phase II investigations conducted by EKI described in Section 9 below further confirm the presence of these compounds at concentrations above residential and commercial ESLs for soil gas and groundwater at the Subject Property.

8.3.3 *Review of Shippen Property Site Files (1175 Terra Bella Avenue)*

The Shippen Property site is located adjacent and to the south of the central portion of the Subject Property, just south of Terra Bella Avenue. EKI reviewed the Fuel Leak Site Case Closure for the Shippen Property site, dated 17 July 2001, available through the GeoTracker website (SCVWD, 2001). According to the site closure documentation, the facility was identified in the LUST database beginning in August 1998 as a result of the removal of a leaking former 500-gallon gasoline UST and received closure from SCVWD in July 2001. Approximately 20 cubic yards of impacted soil were removed along with the leaking UST in 1998. In November 2000, three soil borings were advanced on the Shippen Property site, and one boring was advanced on the southern portion of the 1150 Terra Bella Avenue portion of the Subject Property (location DP-3). In the groundwater samples collected upgradient of the Subject Property, on the Shippen Property, TPHg, toluene, ethylbenzene, xylenes and methyl tert-butyl ether ("MTBE") were detected at maximum concentrations of 2,600 ug/L, 4.4 ug/L, 26 ug/L, 70 ug/L, and 11 ug/L, respectively. These concentrations of TPHg, xylenes, and MTBE exceeded their ESLs for groundwater that is a potential drinking water source of 100 ug/L, 20 ug/L, and 5 ug/L, respectively. In addition, the concentration of ethylbenzene was above the ESL for vapor intrusion for residential land use of 3.5 ug/L. This site achieved regulatory closure from SCVWD in July 2001.

In the grab groundwater sample collected from the 1150 Terra Bella Avenue portion of the Subject Property, benzene was detected at a concentration of 1.8 ug/L, which was above the California drinking water standard of 1 ug/L and the vapor intrusion screening ESL for unrestricted/residential land use of 0.42 ug/L. TPHg, toluene, and xylenes were also detected in this groundwater sample, at concentrations below their respective drinking water and vapor intrusion screening levels (SCVWD, 2001) (Figure 3).

Given the proximity of Shippen Property site to the Subject Property, the groundwater flow direction, and the low detections of petroleum chemicals in the sample collected from the southern edge of the Subject Property, low concentrations of petroleum hydrocarbons in groundwater may have migrated from this site to the Subject Property. However, given the low concentrations detected in groundwater on the Subject Property in 2000, impacts to the Subject Property would likely be very minimal. Moreover, natural degradation of these chemicals would be expected to have occurred since the last groundwater sampling event in 2000.

8.3.4 *Review of Texaco (CVX #21-1179) Site Files (975 North Shoreline Boulevard, formerly 975 Stierlin Road)*

The Texaco site is located south of the western portion of the Subject Property beyond Terra Bella Avenue to the south.[5] This site was identified by EDR as being listed on several LUST-related

[5] The EDR Radius Report identifies this property as both Texaco and Exxon; however, regulatory agency files reviewed by EKI generally identify the property as Texaco.

databases. EKI reviewed the Fuel Leak Site Case Closure dated 26 July 2011, a Quarterly Monitoring Report dated 16 December 2010, and a well destruction report dated 24 June 2011, available through the GeoTracker website (SCCDEH, 2011; Stantec, 2010b; Stantec, 2011). This site was identified as a LUST site in June 1988 and achieved regulatory closure from SCCDEH in July 2011.

According to the closure documentation, releases of gasoline and diesel occurred at the site, and free product was observed in shallow groundwater monitoring wells beginning in 1988. Several remedial actions and extensive soil, soil vapor, and groundwater sampling activities were conducted, including (1) the removal of three gasoline USTs, two diesel USTs, two hydraulic lifts, and one waste oil UST in 1992, (2) the additional excavation of at least 1,520 cubic yards of impacted soil and pumping/removal of 1,000-gallons of groundwater and product in 1993, (3) the installation of a soil vapor extraction ("SVE") system that was operated for two months in 1994 and reportedly removed 14.04 pounds of petroleum hydrocarbons (SCCDEH, 2011).

As a part of the Texaco site investigation and monitoring, four shallow groundwater monitoring wells were installed downgradient of the site, three proximate to the office building immediately south of the Subject Property and one in the southwestern corner of the Subject Property.[6] Three of these wells were sampled in 2010 for total petroleum hydrocarbons as gasoline ("TPHg"), TPHd, benzene, toluene, ethylbenzene, and xylenes ("BTEX") compounds, and MTBE (i.e., monitoring wells MW-22E, MW-22G, and MW-22H, see Figure 2). The groundwater sample collected from monitoring well MW-22E (just south of the former 1015 North Shoreline Boulevard residence) contained the following:

- TPHg was detected at a concentration of 7,700 ug/L, above the drinking water ESL of 100 ug/L;
- TPHd was detected at a concentration of 3,300 ug/L, above the drinking water ESL of 100 ug/L;
- Benzene was detected at a concentration of 58 ug/L, above the drinking water ESL of 1 ug/L, the vapor intrusion risk ESL for residential/unrestricted land use of 0.42 ug/L, and the vapor intrusion risk ESL for commercial/industrial land use of 1.8 ug/L; and
- Toluene, ethylbenzene, xylenes, and MTBE were detected above laboratory reporting limits, but below respective screening levels for drinking water and vapor intrusion risk (SCVWD, 2011).

Petroleum hydrocarbons and related constituents were not detected above laboratory reporting limits in Subject Property monitoring well MW-22H during the most recent sampling events in October 2010, and February 2010, respectively, or in upgradient wells MW-22F and MW-22G which was last sampled in 2006 (Figure 2). All four of the wells that were formerly located on the Subject Property and the adjacent office building area related to this LUST case were abandoned

[6] These wells were destroyed in 2011, as discussed in Section 8.4.5, below.

in June 2011 (Stantec, 2011). This site achieved regulatory closure from SCCDEH in July 2011. Texaco issued an indemnification agreement in 2009 in relation to this LUST case to The Roberta & Marco Bertozzi Family Trust (owner of the 1005 and 1015 N Shoreline Boulevard and 1150 Terra Bella Avenue properties at the time). A copy of this letter is provided in Appendix D.

In addition, the EDR identified a listing for "Exxon" located at 925 Shoreline Road, an address which would be located south of the Subject Property. The Exxon site at this address was identified on the CA HIST CORTESE database; however, the GeoTracker, EnviroStor, SCVWD, and SCCDEH online databases do not contain files associated with this address. In addition, the EDR identified 975 Stierlin Road as an Exxon site. Therefore, it is likely that the EDR listing for the Exxon site also refers to the Texaco site at 975 North Shoreline.

Given the proximity of the Texaco site to the Subject Property, the groundwater flow direction, and detected historical concentrations of petroleum hydrocarbon and associated VOCs in shallow groundwater immediately upgradient of the Subject Property, there is a potential that low levels of petroleum hydrocarbon contamination in shallow groundwater may have migrated from the Texaco site to the Subject Property; however, the source of the contamination on the Texaco site appears to have been remediated and the site received closure from the SCCDEH in 2011. In addition, benzene and other petroleum-related compounds were not detected at significant concentrations in soil and groundwater on the Subject Property during sampling activities conducted during the March 2019 Phase II subsurface investigation, and benzene was only detected at low concentrations in soil gas, as described in Section 9 below.

8.3.5 *Review of Shoreline Shell #59 Site Files (807 North Shoreline Boulevard, formerly 807 Stierlin Road)*

The Shoreline Shell #59 site is located approximately 740 feet south of the Subject Property, on the opposite side of Terra Bella Avenue. EKI reviewed the Fuel Leak Site Case Closure for this site, dated 6 August 2008, available through the GeoTracker website (SCCDEH, 2008). The Shell site was identified as a LUST site in August 1988, due to a reported gasoline release and achieved regulatory closure from SCCDEH in August 2008. In that time period, remediation activities included the removal of three gasoline USTs and one diesel UST in 1991, the removal of 2,075 cubic yards of soil in two events that took place in 1991 and 2002, soil vapor extraction activities in 1994, and the removal of approximately 125,000 gallons of groundwater from a tank pit in 2002.

At the time of closure, residual groundwater contamination remained on this site at the following concentrations: TPHg (910 ug/L), TPHd (170 ug/L), tert-Butyl alcohol ("TBA") (16 ug/L), and MTBE (21 ug/L). Residual soil contamination was present onsite at the following concentrations: TPHg (2,800 mg/kg), TPHd (61 mg/kg), benzene (0.65 mg/kg), and MTBE (4.7 mg/kg). The SCCDEH determined this residual contamination did not pose a risk to groundwater, human health, or the environment and the site achieved regulatory closure in 2008 (SCCDEH, 2008).

Given the distance between the Shell site and the Subject Property, petroleum hydrocarbon impacts related to this release are not likely to have migrated from this site to the Subject Property.

8.3.6 *Review of Chevron #9-6377 Site Files (808 North Shoreline Boulevard, formerly 808 Stierlin Road)*

The Chevron site is located approximately 770 feet south/southwest of the Subject Property beyond Terra Bella Avenue and North Shoreline Boulevard. EKI reviewed the Fuel Leak Site Case Closure for this site, dated 18 May 2005, available through the GeoTracker website (SCCDEH, 2005). This site was identified as a LUST in April 1988, due to a reported gasoline release, and received closure from SCCDEH on 18 May 2005. Remediation activities included the removal of six gasoline USTs and one used oil UST from the site in 1988, and the treatment and disposal of 14,300 gallons of groundwater in 2001. During the most recent groundwater sampling event that took place prior to closure in February 2004, residual groundwater contamination was present at the following concentrations: TPHg (6,800 ug/L), benzene (47 ug/L), MTBE (64 ug/L). According to closure documentation, this residual contamination could pose an unacceptable risk under certain development activities, leading to ongoing site management restrictions related to future grading, excavation, or water well installation activities (SCCDEH, 2005). In 2008, additional soil and groundwater sampling was performed at the Chevron site as part of a property transaction (Stantec, 2008). One groundwater sample, located on the downgradient portion of the Chevron site, contained TPHd at a concentration of 1,200 ug/L, above the drinking water ESL of 100 ug/L. This site achieved regulatory closure from SCCDEH on 18 May 2005.

Given the distance between the Chevron site and the Subject Property, petroleum hydrocarbons related to this release are unlikely to have migrated from this site to the Subject Property.

8.3.7 *Review of ARCO Site Files (790 North Shoreline Boulevard, formerly 790 Stierlin Road)*

The ARCO site is located approximately 960 feet south/southwest of the Subject Property, just south of West Middlefield Road. EKI reviewed the Fuel Leak Site Case Closure for the ARCO site, dated 26 July 2004 (SCVWD, 2004), and a letter of correspondence from the SCCDEH, dated 10 December 2014 (SCCDEH, 2014), available through the GeoTracker website.

According to available records, the ARCO site was identified as a LUST in July 1986 due to a reported gasoline release. In that time period, remediation activities included the removal of five gasoline USTs, one used oil UST, and one oil/water separator from the site. In addition, at least 1,030 cubic yards of impacted soil was excavated and removed for the site in June 1988, and 35,000 gallons of groundwater were pumped and transported offsite in November 2002. This site achieved regulatory closure from SCCDEH in July 2004.

During the most recent groundwater sampling performed in August 2003, concentrations of petroleum hydrocarbons and associated VOCs detected in shallow groundwater were as follows: TPHg (3,800 ug/L), benzene (600 ug/L), toluene (48 ug/L), ethylbenzene (66 ug/L), and xylenes

(220 ug/L). According to closure documentation, the presence of residual contamination could pose an unacceptable risk under certain development activities, leading to management restrictions on future onsite activities (SCVWD, 2004). These management restrictions were upgraded to a deed restriction that was filed for the site in June 2013. This deed restriction includes the following restrictions: no groundwater extraction, no residential development, and health and safety requirements for onsite construction workers. The deed restrictions are summarized in a letter, dated 10 December 2014, that also indicates that levels of residual impacts are expected to reduce with time, but that previously unidentified contamination at this site may require further investigation or cleanup (SCCDEH, 2014).

Given the distance between the ARCO site and the Subject Property, petroleum hydrocarbon impacts related to this release are not likely to have migrated to the Subject Property.

8.3.8 *Review of 1250 W Middlefield Road and 1300 Terra Bella Avenue*

The Teledyne Semiconductor (formerly Telcom Semiconductor) and Spectra-Physics Laser, Inc. Sites are located approximately 650 feet west and southwest Subject Property (likely cross-gradient) and are not a directly adjoining or upgradient property. However, EKI has included the following summary due to chemical usage at the site and known impacts on nearby properties. EKI reviewed several documents available through the GeoTracker database, including a *Final Revised Focused Feasibility Study* and the most recent groundwater monitoring report for the Teledyne Semiconductor and Spectra-Physics Laser, Inc. Sites (Arcadis, 2018a; Arcadis, 2018b).

A variety of synthetic chemicals, including VOCs, were used in manufacturing processes at both sites (LFR, 2009). According to available reports, VOCs were released from these sites and have impacted shallow and intermediate zone groundwater (LFR, 2009). These sites are jointly currently undergoing remediation for contamination in groundwater. According to the *Final Revised Focused Feasibility Study*, groundwater at the Teledyne Semiconductor portion of the site is being treated by enhanced reductive dechlorination ("ERD") to reduce VOC concentrations in source areas (Arcadis, 2018a). As a part of this remediation and associated monitoring, a network of extraction and monitoring wells spans from the area of the Teledyne Semiconductor and Spectra-Physics Laser, Inc. Sites and downgradient approximately one mile, on the north side of Highway 101. The plume consists primarily of TCE and its breakdown products, cDCE, and vinyl chloride. Based on the data presented in groundwater monitoring reports, the Subject Property is cross-gradient to and lies east of the outer edge of the groundwater VOC plume (Arcadis, 2018b). Therefore, VOCs from the Teledyne Semiconductor and Spectra-Physics Laser, Inc. sites are not expected to impact the Subject Property.

8.4 Review of Available Regulatory Agency Files for Subject Property

EKI submitted requests to the following environmental regulatory and public agencies to review available files regarding the Subject Property:

- San Francisco Regional Water Quality Control Board ("RWQCB")
- City of Mountain View Fire Department, Hazardous Materials Division
- City of Mountain View Community Development Department Building Division
- Department of Toxic Substances Control
- Bay Area Air Quality Management District ("BAAQMD")
- Santa Clara County Department of Environmental Health
- California Department of Water Resources

In addition, EKI searched online databases maintained by DTSC, RWQCB, SCVWD, and SCCDEH. EKI reviewed City of Mountain View Fire Department, City of Mountain View Community Development Department Building Division, SCCDEH, DTSC, BAAQMD, and DWR documents regarding the Subject Property. The RWQCB did not provide any files regarding the Subject Property. Copies of selected files are included in Appendix A of this report. Brief summaries of the available file information reviewed by EKI are presented below.

8.4.1 *Summary of City of Mountain View Fire Department, Hazardous Materials Division Files*

The City of Mountain View Fire Department Files primarily relate to the following former addresses associated with the Subject Property, as shown on Figure 2.

8.4.1.1 *1062 Linda Vista Avenue*

The City of Mountain View provided records for the Verizon Wireless facility located on the 1062 Linda Vista Avenue portion of the Subject Property. Documents reviewed include a Hazardous Materials and Waste Storage permit that was issued in June 2015. According to this permit, 132-gallons of combustible liquid (diesel fuel #2) and 50-gallons of corrosive liquid (lead acid battery) are stored onsite, presumed to be associated with the cell tower facility. Hazardous waste is not reported to be generated onsite.

8.4.1.2 *1130 Terra Bella Avenue*

The City of Mountain View provided records for Olin Mesa (formerly known as Mesa Technology prior to 1989), which formerly occupied the 1130 Terra Bella Avenue portion of the Subject Property. Documents reviewed ranged in date from 1984 to 1989, and include hazardous materials storage permits and inventory statements, emergency response plans, hazardous waste manifests, and a closure plan and associated documents.

According to these documents, the 1130 Terra Bella Avenue property was occupied for industrial use since approximately 1972, including by Olin Mesa who began to occupy this site in 1983. Olin Mesa's operations included the manufacturing of Tape Automated Bonding (TAB) tape, as well as related research and development activities. Processes related to these operations involved several chemicals and included pre-cleaning, developing, tin plating, stripping, gold-plating, etching, and coating/back-coating. Permitting documents also indicate that an atomic absorption spectrometer was utilized onsite. Multiple hazardous waste inventory lists identify several

chemicals including corrosive, poisonous, and flammable liquids, which were stored onsite in quantities ranging from 30 to 275 gallons, as well as corrosive solids stored onsite in quantities up to 375 pounds.

A December 1984 General Facility Map indicates that the area directly north of the former onsite building was used for "outside storage." In addition, an Emergency Response-related document from 1987 includes a site map that depicts a hazardous material storage and waste area as well as an above-ground acid neutralization system and sump in that same location. In December 1985, Mesa Technology was issued an industrial wastewater discharging to the City of Mountain View sanitary sewer collection system. On 26 October 1987 a fire occurred at this building, which caused a container holding acid to spill and reach an outside storm water drain inlet. This spill was successfully contained and cleaned up by the Fire Department at that time. These documents also include a "Registration of Radiation Sources" with an illegible issuing date and a hand-written note indicating that it expired in June of 1990.

The 1988 closure plan included in these documents indicates that the trench and sump area to the north of the building were tested and "chipped out", and that the tested materials would be disposed of if contamination was identified. The 1988 closure plan indicates that elevated levels of metals were detected due to the presence of soil particles in the samples, implying that the groundwater samples were likely unfiltered. A subsequent waste manifest details the removal of 5,200 pounds of copper contaminated soils and concrete in December 1989.

Letters of correspondence between Olin Mesa and the Fire Department as well as a "Preliminary Environmental Assessment and Groundwater Investigation" completed by Aqua Terra Technologies ("ATT") in 1988 indicate that three groundwater monitoring wells (MW-1, MW-2, and MW-3) were installed on-site, each to a depth of 19 feet bgs (see Figure 3). Chlorinated solvents were reportedly detected in all three wells in groundwater samples collected in 1988. ATT (1988) also indicates that arsenic, barium, chromium, and mercury were detected in groundwater samples at concentrations exceeding MCLs and states that these concentrations were due to presence of soil particles in the samples (i.e. the samples were unfiltered).[7] The reported concentrations are generally consistent with background concentrations of total metals in unfiltered groundwater samples for the region. ATT (1988) concluded that the source of the chlorinated solvents may be either on-site or off-site. Olin Mesa indicates that "research quantities" of TCE were utilized onsite but that they have never had a spill of these materials. Groundwater sampling results from these three wells are shown on Figure 3 and are discussed further in Section 5.6.

[7] The maximum concentrations of arsenic, barium, chromium, and mercury detected in unfiltered groundwater samples were 0.08 J mg/L, 20 mg/L, 3.1 mg/L, and 0.004 mg/L, which exceed their current MCLs of 0.01 mg/L, 1 mg/L, 0.05 mg/L, and 0.002 mg/L, respectively. In addition, the maximum detected concentration of copper (2.1 mg/L) slightly exceeds its current California State Action Level of 1.3 mg/L.

8.4.1.3 *1170 Terra Bella Avenue*

The City of Mountain View provided records for the 1170 Terra Bella Avenue portion of the Subject Property that ranged in date from 1985 to 2015. As discussed above, and depicted in Figure 2, only a small portion of the property associated with the former 1170 Terra Bella Avenue property is located on the Subject Property. The documents include a Hazardous Materials and Waste Storage permit that was issued to Oxigraf Inc. in July 2015. According to this permit, Oxigraf stored 5-gallons of flammable liquid (acetone, isopropanol, and methanol) and 4,879 cubic feet of various nonflammable gases onsite.

Historical documents include a hazardous materials storage permit code-permit application for MHI, a former building occupant who was present from at least 1985 until they vacated the site in 1986. This application includes a hand-drawn site map indicating that onsite storage took place on the exterior portion of this property, adjacent to the northwest corner of the former building, and not likely on the Subject Property. A 1986 Facility Permit Fee Worksheet indicates that 65-gallons of flammable liquid were being stored onsite at that time.

Hazardous Materials Safety Notice and Storage Permits from 1990 identify Telewave Inc. as a former occupant of this building of the Subject Property. These documents indicate that approximately 110 gallons of City Required Materials (CRM-L) and 5 gallons of flammable liquid were being stored onsite. A hand drawn map from May 1990 indicates that the exterior parking area to the west of the onsite building was used for "storage". A closure plan from January 1991 indicates that there was no observable spill or contamination onsite, that no soil or groundwater sampling was required, and that all materials had been relocated to 1145 Terra Bella Avenue (a property that adjoins the Subject Property to the south) at that time.

8.4.2 *Summary of City of Mountain View Building Department Files*

EKI viewed available records for the Subject Property at the City of Mountain View Building Department. In addition, EKI reviewed information provided in the EDR Building Permit Report (EDR, 2019). Information of potential environmental interest for the Subject Property is summarized below.

8.4.2.1 *1001 North Shoreline Boulevard*

Permits for the new commercial building at 1001 North Shoreline Boulevard (not included in the scope of this Phase I ESA) were issued from 2016-2018, including a grading permit, building plan checks, and fire protection plan checks.

8.4.2.2 *1015 North Shoreline Boulevard*

A demolition permit for the 800 square foot building at this property was issued in November 2015; no other permits were provided for this property.

8.4.2.3 *1023 North Shoreline Boulevard*

Permits issued for the 1023 North Shoreline Boulevard portion of the Subject Property include a plan checks for tenant improvements from 2003 to 2011, fire protection plan checks, and a demolition permit for the 15,513 square foot building in November 2015.

8.4.2.4 *1130 Terra Bella Avenue*

Based on plumbing and electrical records, the former building at this address appears to have been constructed in approximately 1982. Records also include a permit for a "containment area" that was constructed in 1987. Building layout plans indicate that a "clean room" with multiple "camera" and "exposure" stations was formerly located in the southwestern portion of the building. In addition, these records indicate that the exterior area to the north of the building formerly contained a tank farm as well as an onsite waste treatment system that consisted of a trench that fed into a sump before draining into an acid neutralization system. A demolition permit for the building was issued in November 2015.

8.4.2.5 *1043 North Shoreline Boulevard*

A demolition permit for the 12,850 square foot building at this property was issued in November 2015; no other permits were provided for this property.

8.4.2.6 *1091 North Shoreline Boulevard*

Permits issued for the 1091 North Shoreline Boulevard portion of the Subject Property include plan checks for tenant improvements from 2004 to 2012, fire protection plan checks, and a demolition permit for the 30,268 square foot building in December 2015.

8.4.2.7 *1150 Terra Bella Avenue*

A building permit indicates that an onsite septic tank was abandoned in 1995 and that the residential building located at this address was connected to the sewer system at that time. A demolition permit for the 1,200 square foot building was issued in November 2015.

8.4.2.8 *1160-1170 Terra Bella Avenue*

A 1990 permit for "spray booth relocation" and associated maps indicate that a paint spray booth and a storage area were formerly located in the northwestern corner of the current building. The occupant at that time was Alto Design Group. A demolition permit for the 7,840 square foot building at 1160 Terra Bella Avenue was issued in November 2015.

8.4.2.9 *1062 Linda Vista Avenue*

These documents range in date from 2012 to 2014 and describe the Verizon cell-phone tower that was constructed in the fenced-off area to the east of the current building in approximately 2014. Building plans indicate that in addition to the tower (described as a wireless antenna and

a monopole) the fenced in area houses several "mod cell" cabinets and one lead-acid battery cabinet. A "proposed signage" document indicates that corrosive liquids, hydrogen gas, and diesel fuel are stored onsite. A demolition permit for the 13,000 square foot building was issued in November 2015, and a plan check for modifications to the Verizon cell-phone tower was dated December 2016.

No other Building Department documents reviewed indicated the presence or use of chemicals at the Subject Property.

8.4.3 *Summary of DTSC Files*

DTSC provided records for 1130 Terra Bella Avenue, but no other addresses associated with the Subject Property. Records provided by DTSC ranged in date from 1981 through 1995. These records are summarized below.

These records identify Mesa Technology (AKA Olin Mesa Corporation) as the site occupant, and indicate that onsite operations included the development, manufacturing, and sales of materials and equipment for semi-conductor packaging and assembly, including microinterconnect tape. This tape comprises copper foil and a laminate with polyamide film backing. The manufacturing process involves "the cleaning of copper foil, coating the foil on both sides with a positive acting photoresist, exposing a pattern, chemically etching or plating the copper foil to define a pattern, stripping the photoresist from both sides of the foil, cleaning the patterned copper foil and plating the patterned foil with tin, nickel, gold, or solder."

The manufacturing process reportedly created three waste streams including ammonium persulfate, hydrochloric acid, and an organic stripper solution. These materials were recycled through the manufacturing process until they were considered unusable when copper concentrations built up to a reported range of 700 to 14,000 mg/L. A waste treatment system (acid-neutralization unit), designed to handle a peak flow of 15 gallons per minute and maintain a pH range of 6.5 to 9.0, was built onsite in 1987. Waste effluent was conveyed from the building interior to a sump located north of the building via a polypropylene drain located in a concrete trench, and then pumped through the neutralization unit. Following pH adjustment, the effluent was discharged to the sanitary sewer, which ultimately flowed to the Palo Alto Wastewater Treatment Plant.

A building map from 1987 displays storage areas for flammable and corrosive materials, solvents, and acid in the northern portion of the former building. In addition, a wet lab, camera room, SCBA station, test lab, photo resist application and drying area, and solder coating station are labelled throughout the northern portion of the building. Furthermore, a sump, aboveground neutralization system, and hazardous materials storage (waste) area is labeled on the exterior portion of the property, to the north of the building.

DTSC records also include a 1989 "Denial of Variance Application" relating to a request to dilute concentrated waste solutions and dispose of them into the sewer as non-hazardous waste. This

letter also indicates that the wastewater pretreatment system had not received the necessary DTSC variance or permit at that time. Subsequent letters of correspondence indicate that Olin Mesa Corp requested a variance from the DTSC in October 1987 for "three waste streams…to allow the discharge of copper bearing waste streams which are greater than 25 mg/l", but the DTSC was unable to process it at that time. A letter of correspondence from February 1989 indicates that drums of waste corrosive liquids were temporarily stored at the Subject Property prior to being shipped offsite.

8.4.4 *Summary of SCCDEH Files*

EKI reviewed SCCDEH documents for the Subject Property available on the GeoTracker website. According to these documents, the former Subject Property Owner, which also owned the adjoining property to the west where the new office building is currently located, applied to the SCCDEH for oversight of the proposed redevelopment activities under the Voluntary Cleanup Program ("VCP") in August 2015. Files available on GeoTracker include the soil vapor sampling report prepared by CEG (2015a) and summarized in Section 5.8 above, and a SMP for the adjoining office building prepared by CEG and dated 15 September 2015 (CEG, 2015b).

The SMP was approved by SCCDEH on 23 October 2015 and describes general groundwater, soil, and soil vapor management procedures to be implemented during the redevelopment of the adjoining office building as a 30,000-square-foot office building and paved parking areas. Among other things, the SMP includes provisions for evaluating and handling potential unknown contamination, sampling of soil for onsite reuse, sampling of import fill material, construction of a vapor barrier (liner) beneath the proposed building, management of construction dewatering water, and worker health and safety (CEG, 2015b). On 31 January 2019, on behalf of the former Subject Property owner, Ramboll submitted a report documenting installation of the liner under the adjoining office building and implementation of the SMP (Ramboll, 2019). The liner includes a 2-inch sand layer, a base layer of a high-density polyethylene ("HDPE") bonded to a polypropylene geotextile, a 60-millimeter-thick asphaltic spray-on membrane, and a second layer of HDPE bonded to polypropylene geotextile (Ramboll, 2019). In addition to the installation of the liner, 3,461 cubic yards of soil were excavated for installation of footings, utilities, and site grading and disposed at Dumbarton Quarry (Ramboll, 2019).

8.4.5 *Summary of BAAQMD Files*

The BAAQMD provided files for the portion of the Subject Property associated with the address 1130 Terra Bella Avenue. The document identifies Olin Mesa Corporation as the occupant from at least 1986 through 1989. In 1986, application #31470 was identified for a project described as "Etching copper foil". The final disposition with respect to this application is reported as "Waived A/C". In 1987, application #32375 was identified for a project described as "Photoresist applic" The final disposition with respect to this application is reported as "A/C granted". This document indicated that operations were ceased and that the facility was dismantled on 26 September 1989.

The BAAQMD did not provide files for any other addresses associated with the Subject Property.

8.4.6 *Summary of DWR Files*

The DWR provided well completion reports for the portions of the Subject Property associated with the addresses 1005, 1015, and 1043 North Shoreline Boulevard and 1150 Terra Bella Avenue. In addition, a Water Well Drillers Report from November 1990 was provided for the well located at 1015 North Shoreline Boulevard. The DWR did not provide records for any other addresses associated with the Subject Property. The provided records are summarized below.

8.4.6.1 *1005, 1015, and 1043 North Shoreline Boulevard*

These well completion reports document the destruction of monitoring wells that were constructed as part of the Texaco site remediation on the property to the south (i.e., MW-22E, MW-22F, MW-22G, and MW-22H; see Section 8.3.4). These well completion reports indicate that all four wells were "filled with neat Portland grout" to their terminal depths on 2 June 2011, and consistent with the 2011 Well Destruction report completed by Stantec on 24 June 2011 (Stantec, 2011).

8.4.6.2 *1150 Terra Bella Avenue*

DWR provided a well completion report documenting the destruction of a water supply well that was formerly located at 1150 Terra Bella Avenue. According to this report, this well was located to the north of the residential dwelling located on this portion of the Subject Property and had a depth of 85 feet bgs. This well was abandoned in accordance with DWR permitting procedures on 14 November 2011.

9 RESULTS OF PHASE II SUBSURFACE INVESTIGATIONS (EKI 2019)

Based on the findings from the prior assessments and at the request of the User given the intended redevelopment, EKI implemented subsurface sampling investigations at the Subject Property. The purpose for the sampling was to:

- Screen for the presence of organochlorine pesticides and lead and arsenic in shallow soil on the Subject Property to assess whether agricultural uses and lead-based paint have affected shallow soil on the Subject Property.
- Screen for the presence of PCBs in soil near the location of a transformer formerly located on the Subject Property.
- Screen for the presence of VOCs in groundwater and soil gas to assess potential vapor intrusion risks from chemicals migrating onto the Subject Property, including the TCE/cDCE/VC plume from 1155 Terra Bella to the south, and potentially from the acid neutralization system formerly located on the Subject Property.

9.1 Pre-Field Activities

Prior to commencement of field sampling activities, EKI performed the following tasks:

- Coordinated sampling schedule and access.
- Coordinated with a drilling sub-contractor to provide drilling services, including preparation of a Work Authorization with the sub-contractor.
- Coordinated with the analytical laboratory regarding sample containers, delivery, and schedule.
- Retained a private utility locating company to screen for the presence of buried utilities in the planned drilling locations, and contacted Underground Services Alert, as required by law.
- Prepared a site-specific Health and Safety Plan for the proposed work.

9.2 Collection of Soil, Soil Gas, and Groundwater Samples

In March 2019, EKI advanced a total of 15 boreholes on the Subject Property using a hand auger to collect soil samples and install temporary soil gas probes (see boreholes labeled SG-1 through SG-9 and BH-1 through BH-6 on Figure 4). EKI also advanced a total of five boreholes on the Subject Property using a direct push drill rig to collect grab groundwater samples (see boreholes labeled GW-1 through GW-5 on Figure 3). In April 2019, EKI advanced two additional boreholes approximately five feet north and south of borehole SG-6 to collect additional soil gas samples.

9.2.1 *Collection of Soil Samples*

EKI collected soil samples from 14 of the 17 soil and soil gas sampling boreholes advanced at the Subject Property; the only boreholes without soil sample collection were the borehole advanced near the former acid neutralization tank (SG-5) and the two boreholes advanced near SG-6 in April 2019 (SG-10 and SG-11). For all 14 boreholes, EKI collected soil samples from intervals of 0.5 to 1 foot bgs and 2.5 to 3 feet bgs. Generally, shallower samples were located within sandy material likely brought to the Subject Property as fill during development, and deeper samples were located within silty or clayey native material, several of which were within the upper foot of historical native soil; however, the sandy material was not present at all locations, and some of the shallower samples were collected from probable native material. The samples collected from apparent native material during the investigation are as follows:

- BH-1 from 0.5 to 1 foot bgs: sandy silt with root pieces
- BH-3 from 0.5 to 1 foot bgs: dark brown silty clay
- BH-5 from 0.5 to 1 foot bgs: stiff sandy silt
- SG-4 from 0.5 to 1 foot bgs: clay (75%) with sand
- SG-7 from 2.5 to 3 feet bgs: sandy clay (70-80%)
- SG-8 from 0.5 to 1 foot bgs: silty clay (70-90%)

The 0.5 to 1-foot bgs soil samples from all boreholes except the borehole advanced near the former transformer location (BH-6) were analyzed for organochlorine pesticides, arsenic, and lead. The 2.5 to 3-foot bgs soil samples from these boreholes were initially placed on hold at the analytical laboratory. Following the receipt of results from the 0.5 to 1-foot bgs soil samples, seven of the 2.5 to 3-foot bgs soil samples were analyzed for organochlorine pesticides,[8] arsenic, and lead. Both soil samples from the borehole near the former transformer location (BH-6) were analyzed for PCBs.

Soil samples were labeled with a unique identification number, placed in a chilled ice chest, and submitted to the analytical laboratory under chain-of-custody procedures. The analytical results for the soil samples are presented in Section 9.4.1, below.

[8] The 2.5 to 3-foot bgs soil samples were analyzed outside of the holding time for organochlorine pesticides; however, due to the low volatility and stable nature of these compounds, the exceedance of the holding time would not have significantly affected the analytical results.

9.2.2 *Collection of Soil Gas Samples*

At boreholes SG-1 through SG-11 on the Subject Property, following soil sample collection, EKI installed temporary soil gas probes ("SGPs") for collection of soil gas samples. The SGPs were constructed in general accordance with the California-Environmental Protection Agency's ("Cal-EPA") July 2015 guidance entitled *Advisory – Active Soil Gas Investigations*. The boreholes, approximately 4-inches in diameter, were logged under the supervision of a State of California professional geologist and an organic vapor meter equipped with a photoionization detector ("PID") was used to screen the soil for VOCs.

Each SGP consisted of a 6-inch long, ½-inch diameter stainless-steel wire mesh screen attached to a length of continuous ¼-inch diameter flexible fluorinated ethylene propylene ("FEP") tubing, sealed at the top using a stainless-steel laboratory-grade plug valve with Swagelok-type compression fittings. The borehole annular space around the SGP screen was backfilled with a 1.5-foot vertical filter pack of prewashed silica sand. Above the filter pack, each SGP borehole was backfilled with a minimum six-inch layer of dry medium granular bentonite, per Cal-EPA guidance. Above the dry granular bentonite, each borehole was sealed to existing grade with medium bentonite chips, emplaced and hydrated in approximately 6-inch lifts. Bentonite at the top of the seal was covered with approximately 6 to 8 inches of sand.

Consistent with current Cal-EPA guidance, soil gas samples were collected approximately 48-hours after installation of the SGPs. The soil gas samples were collected in laboratory-provided, pre-cleaned and pre-evacuated 1-liter SUMMA-passivated stainless-steel sample canisters equipped with flow controllers set at a flow rate of approximately 100 milliliters per minute ("mL/min"). Each SUMMA canister was individually certified as clean below the laboratory reporting limits.

A shroud was maintained around each SGP during sample collection to allow a controlled atmosphere containing the leak-detection compound 1,2-difluoroethane ("DFA"), to be maintained around the SGP and sampling apparatus. At each of the SGP sampling locations, the air inside the shroud was sampled to determine the concentration of DFA around the sampling apparatus.

Immediately before sampling, each SGP was purged at least three times the volume of the tubing and sand pack. The sampling canister was allowed to fill until a small residual vacuum remained, at which point the valve was closed. At each location, the air inside the shroud was sampled using a separate SUMMA canister and analyzed for DFA, so that the concentration ratio between shroud sample and SGP sample could be used to estimate dilution in the event of leakage.

Following completion of soil gas sampling, the SGPs were destroyed by removing the tubing from the SGPs, augering out the bentonite seals, and grouting the boreholes to the pavement surface with neat cement.

The soil gas samples were labeled with a unique identifying number, the date and time of collection, and other pertinent information, and transported to K-Prime by courier under chain-of-custody procedures. The analytical results for the soil gas samples are presented in Section 9.4.2, below.

9.2.3 *Collection of Groundwater Samples*

During the investigation, EKI advanced a total of five boreholes on the Subject Property using hand auger and direct-push drilling techniques to collect groundwater samples (see boreholes labeled GW-1 through GW-5 on Figure 3). Each of the boreholes for groundwater sampling was advanced to 15-17.5 feet bgs, and a temporary well casing of 2-inch polyvinyl chloride ("PVC") pipe with 10 feet of perforated well screen was placed in each borehole. After letting groundwater recharge into the well screens, groundwater was encountered between 6.7 to 12 feet bgs prior to sampling. A new, unused check valve and new polyethylene tubing was used to collect groundwater samples directly into laboratory-supplied containers. No sheen was observed in any of the temporary wells.

Groundwater samples collected from each borehole were placed in laboratory-supplied containers, labeled with a unique identification numbers, and placed in a chilled ice chest for transport to the analytical laboratory under chain-of-custody procedures.

The groundwater in each of the five locations was analyzed by K-Prime for VOCs using U.S. EPA Method 8260. The analytical results for the groundwater samples are presented in Section 9.4.3, below.

9.3 Grouting of Boreholes and Investigation-Derived Wastes

Following completion of soil, soil gas, and groundwater sampling from the boreholes, each of the boreholes was grouted to a few inches below the pavement or ground surface with neat cement. Surface completion of boreholes within the landscaped areas was with soil or other plant materials; and surface completion of boreholes in asphalt paved areas consisted of concrete dyed black to better match the existing asphalt color.

9.3.1 *Investigation-Derived Wastes*

The investigation-derived wastes ("IDW"), i.e., soil cuttings, were placed in 55-gallon metal drums. The drums were stored at the Subject Property. Samples of the wastes were submitted to K-Prime for analysis for waste characterization for disposal purposes. Based on the waste characterization analyses, the IDW was classified as non-hazardous waste by Belshire Environmental Services, Inc. ("Belshire"). Belshire has removed the IDW from the Subject Property and will provide EKI and the User with waste removal and disposal documentation once the IDW has been disposed at a proper disposal facility.

9.4 Analytical Results for Soil, Soil Gas, and Groundwater Samples

Analytical results for soil, soil gas, and groundwater samples collected by EKI are presented below.

9.4.1 *Analytical Results for Soil Samples*

The analytical results for the soil samples are summarized in Table 1; laboratory data sheets from K-Prime are included in Appendix G. The 0.5 to 1-foot bgs soil samples from boreholes SG-1, SG-3, SG-4, SG-6 through SG-9, BH-1 through BH-5, and BH-7 were submitted to the laboratory and analyzed for organochlorine pesticides using U.S. EPA Method 8081A and arsenic and lead using U.S. EPA Method 6020. Arsenic and lead concentrations in the soil samples were consistent with background levels, and below the ESLs for residential soil or background concentration of 11 mg/kg for arsenic (Duverge, 2011). Organochlorine pesticides were either not detected or were present at concentrations below the respective ESLs for residential land use. Following receipt of the results from the 0.5 to 1-foot bgs soil samples, given that some of the shallow soil samples were collected from likely fill soil that was imported to the Subject Property, seven of the 2.5 to 3-feet bgs soil samples that were placed on hold were analyzed for pesticides, lead, and arsenic. The highest pesticide concentrations were detected in the 2.5 to 3-feet bgs sample from location SG-7, which was in the upper foot of the native soil. In all of the deeper samples, organochlorine pesticides, lead, and arsenic were not detected or were present at concentrations below the respective ESLs for residential land use and concentrations were generally similar to the shallower samples (Table 1).

Both of the soil samples collected from the former transformer area were analyzed for PCBs using U.S. EPA Method 8082. Aroclor 1260 was detected at a concentration of 0.622 mg/kg in the 0.5 to 1 foot bgs sample, which is below the most conservative High Occupancy Use Cleanup Level of 1 mg/kg established in the Toxic Substances Control Act ("TSCA"; 40 CFR 761.61). The High Occupancy Cleanup Level is consistent with residential and commercial land use.[9] Aroclor 1260 was not detected in the 2.5 to 3 feet bgs sample.

9.4.2 *Analytical Results for Soil Gas Samples*

Each of the 12 soil gas samples collected from locations SG-1 through SG-11 on the Subject Property (including one duplicate sample collected from location SG-6) as shown on Figure 3 was analyzed by K-Prime for VOCs using EPA Method TO-15 and 1,1-DFA using EPA Method TO-3. Each of the shroud samples was also analyzed for 1,1-DFA by EPA Method TO-3.

[9] High occupancy area means any area where PCB remediation waste has been disposed of on-site and where occupancy for any individual not wearing dermal and respiratory protection for a calendar year is: 840 hours or more (an average of 16.8 hours or more per week) for non-porous surfaces and 335 hours or more (an average of 6.7 hours or more per week) for bulk PCB remediation waste. Examples could include a residence, school, day care center, sleeping quarters, a single or multiple occupancy 40 hours per week work station, a school class room, a cafeteria in an industrial facility, a control room, and a work station at an assembly line (40 CFR 761.3).

The analytical results for the soil gas samples are summarized in Table 2 of this report. The analytical laboratory reports for the soil gas samples provided by K-Prime are included in Attachment H. The results were screened against the soil gas vapor intrusion human health risk level ESLs (RWQCB, 2019).

The VOCs detected in soil gas above the residential ESLs are TCE, cDCE, vinyl chloride, PCE, benzene, and chloroform. TCE was detected above the residential ESL of 15 ug/m^3 at four locations (SG-1 through SG-4) at concentrations from 70.5 to 140 ug/m^3. cDCE was detected above the residential ESL of 280 ug/m^3 at one location (SG-1) at a concentration of 439 ug/m^3. Vinyl chloride was detected above the residential ESL of 0.32 ug/m^3 at four locations (SG-1, SG-2, SG-4, and SG-5) at concentrations from 2.07 to 20.9 ug/m^3. PCE was detected above the residential ESL of 15 ug/m^3 in four locations (SG-3, SG-6, SG-10, and SG-11) at concentrations from 33.7 to 372 ug/m^3. Benzene was detected above the residential ESL of 3.2 ug/m^3 in two locations (SG-2 and SG-5) at concentrations from 4.74 to 7.76 ug/m^3. Chloroform was detected above the residential ESL of 4.1 ug/m^3 at two locations (SG-4 and SG-10) at concentrations from 4.29 to 11.8 ug/m^3.

1,1-DFA (leak check compound) was not detected in any of the soil gas samples; thus, no significant leaks of ambient air into the sample containers or significant dilution of the soil gas samples occurred during the collection of the samples.

9.4.3 *Analytical Results for Groundwater Samples*

The five groundwater samples and one duplicate sample collected from locations GW-1 through GW-5 on the Subject Property as shown on Figure 3 were analyzed by K-Prime for VOCs using U.S. EPA Method 8260. The analytical results for the groundwater samples are summarized in Table 3 of this report. TCE was detected in three of the five collected groundwater samples (GW-1, GW-2, and GW-3) at concentrations from 14.1 to 93.5 ug/L, which are above the California MCL of 5.0 ug/L and the residential vapor intrusion ESL of 1.2 ug/L. cDCE was detected in one groundwater sample (GW-2) at a concentration of 208 ug/L, which is above the California MCL of 6.0 ug/L and the residential vapor intrusion ESL of 49 ug/L. cDCE was detected in two additional groundwater samples (GW-1 and GW-4) at concentrations from 9.79 to 27.5 ug/L, which are above the California MCL, but below the residential vapor intrusion ESL. All other detected VOCs in groundwater are present at levels below the respective MCLs and ESLs.

10 SUMMARY OF PHASE I ESA FINDINGS AND OPINIONS

EKI's findings and opinions regarding conditions indicative of releases and threatened releases of hazardous substances or petroleum products on, at, or in, the Subject Property, e.g., RECs are presented below.

10.1 Summary of Phase I ESA Findings

EKI's Phase I ESA findings and opinions are presented below. The following REC was identified in connection with the Subject Property:

- Soil gas and groundwater on the Subject Property have been impacted by offsite sources, including the migration of TCE and breakdown products cDCE and vinyl chloride originating from the 1155 Terra Bella Avenue property to the south. Three groundwater monitoring wells were installed on the southeastern portion of the Subject Property and sampled in 1988 and 2005 (Figure 3). In 1988, TCE was detected in the three wells at concentrations ranging from 16 ug/L to 300 ug/L. When the wells were sampled in 2005, TCE was detected at concentrations ranging from 33 ug/L to 46 ug/L. In 2019, EKI collected groundwater and soil gas samples across the Subject Property. TCE, cDCE, and vinyl chloride were detected in soil gas and/or groundwater in some locations. Detected TCE concentrations in groundwater ranged from 93.5 ug/L to 14.1 ug/L (with the maximum concentrations at the southeastern portion of the Subject Property adjacent to 1155 Terra Bella Avenue); TCE was not detected in the groundwater samples collected in the northwestern portion of the Subject Property. Based on the detected concentrations in groundwater and investigations conducted on behalf of the property owner of 1155 Terra Bella Avenue, the TCE appears to have been released from a former UST on the upgradient 1155 Terra Bella Avenue property.

The following HREC associated with the Subject Property was identified in the performance of this Phase I ESA:

- Several known petroleum hydrocarbon release sites are located south and upgradient of the Subject Property, including the Texaco site located at 975 North Shoreline Boulevard and the Shippen Property site located at 1175 Terra Bella Avenue, as well as other release sites located further to the south. The Texaco and the Shippen Property sites have undergone remediation and both sites received regulatory closure in 2011 and 2001, respectively.

  Given that both the Texaco and the Shippen Property sites have received regulatory closure and the very low concentrations of constituents of concern detected in groundwater at the Subject Property during EKI's 2019 sampling event, these groundwater impacts are not likely to significantly impact the planned future use of the Subject Property.

10.2 Identified Phase I ESA Data Gaps

According to the Final U.S. EPA AAI Rule, a "data gap" is lack of or inability to obtain information required by the AAI Rule that affects the ability of the environmental professional to identify conditions indicative of releases or threatened releases to the Subject Property despite good faith efforts made by the environmental professional. No potentially significant data gaps were identified in the performance of this Phase I ESA.

11 SUMMARY OF EKI 2019 SUBSURFACE INVESTIGATIONS

In March 2019, EKI conducted subsurface investigations at the Subject Property that included the collection and analysis of soil, soil gas, and groundwater samples. In April 2019, EKI collected two additional soil gas samples at the Subject Property. The sample locations are shown on Figures 3 and 4, and the analytical results are presented in Tables 1, 2, and 3 of this report. A summary of the findings is presented below.

11.1 Results of Soil Sampling

EKI collected and analyzed soil samples from 14 locations on the Subject Property from depths of approximately 0.5 to 1 foot bgs and from 7 locations on the Subject Property from depths of approximately 2.5 to 3 feet bgs for analysis of organochlorine pesticides, arsenic, and lead. EKI also collected soil samples from one borehole on the Subject Property in the location of a former transformer pad from depths of approximately 0.5 to 1 foot and 2.5 to 3 feet bgs for analysis of PCBs. According to the analytical results, arsenic and lead concentrations in the soil samples were consistent with background levels, and organochlorine pesticides and PCBs were not detected above residential screening levels. Based on this sampling, EKI did not identify soil with evidence of significant environmental impacts on the Subject Property.

11.2 Results of Soil Gas Sampling

EKI collected soil gas samples from 9 soil gas probes on the Subject Property for analysis of VOCs. The primary VOCs detected in soil gas included TCE, cDCE, vinyl chloride, PCE, benzene, and chloroform, which were detected at concentrations above the residential land use ESLs for soil gas. TCE, cDCE, and vinyl chloride concentrations in soil gas in the southeastern portion of the Subject Property are consistent with the concentrations of these chemicals observed in groundwater samples collected immediately south of the Subject Property at 1155 Terra Bella Avenue, where a release of TCE has resulted in an identified groundwater plume migrating to the north, i.e., beneath the Subject Property. cDCE and vinyl chloride are likely breakdown products of the TCE in the plume.

It should also be noted that an elevated level of PCE was detected at borehole SG-6, outside the plume originating from 1155 Terra Bella Avenue. PCE was not detected in any of the groundwater samples and no historic source is apparent. Two additional soil gas samples were collected in close proximity to SG-6 in April 2019 and contained PCE at elevated concentrations, although somewhat lower than the concentrations detected in SG-6. As such, the PCE detection at SG-6 appears to be limited in area (e.g., from a small historic release).

11.3 Results of Groundwater Sampling

EKI collected groundwater samples from five locations on the Subject Property for analysis of VOCs. TCE and cDCE were detected in groundwater samples at concentrations above screening levels. The concentrations of these compounds detected in groundwater are shown on Figure 3.

The TCE and cDCE detected in groundwater are consistent with those in soil gas and with the plume known to be migrating to the Subject Property from the upgradient 1155 Terra Bella Avenue property to the south.

Taken together, these data suggest the following:

- the TCE, cDCE, and vinyl chloride in soil gas detected the Subject Property likely originate from offsite groundwater migrating to the Subject Property from 1155 Terra Bella Avenue to the south;
- it is unlikely that any significant release of VOCs, including TCE, occurred on the Subject Property; and
- potential historical uses of organochlorine pesticides, arsenic, lead, and PCBs do not appear to affect shallow soil on the Subject Property.

11.4 Recommendations

Chlorinated VOCs (PCE, TCE, cDCE and vinyl chloride) are present in all of the soil gas and groundwater samples collected in the southeastern portion of the Subject Property and in soil gas samples collected from locations SG-6, SG-10, and SG-11 in the northwestern portion of the Subject Property. Although the concentrations of these compounds are relatively low, to be conservative, vapor intrusion mitigation measures should be incorporated into any proposed at-grade occupied spaces in the southeastern portion of the Subject Property.

In the northwestern portion of the Subject Property, vapor intrusion mitigation measures should be incorporated into any proposed at-grade occupied spaces from location SG-6 on the east to location SG-7 on the west. Soil gas samples collected from locations SG-7, SG-8, and SG-9 and groundwater samples collected from locations GW-4 and GW-5 did not contain VOCs at concentrations above vapor intrusion screening criteria, and vapor intrusion mitigation is not warranted for the areas north and west of location SG-7.

Shallow soil samples collected during this investigation did not contain organochlorine pesticides, arsenic, or lead at concentrations above residential screening criteria, and remediation, treatment, or mitigation of this soil is not warranted. A materials management program should be put in place as part of construction management for redevelopment to guide soil export and import requirements as well as protocols for dewatering water that may be generated as part of development.

12 LIMITATIONS AND EXCEPTIONS OF ASSESSMENT

The Phase I ESA is not an audit of current Subject Property operations for compliance with hazardous material usage laws or other regulations or operating permit requirements, including occupational health and safety issues regarding occupants of the Subject Property, wastewater discharge limitations such as National Pollutant Discharge Elimination System ("NPDES") permits, or hazardous waste facility operating permits such as may be required under Resource Conservation and Recovery Act ("RCRA") or State hazardous waste control laws or regulations.

The assessment by EKI did not include "non-scope considerations" as defined in ASTM Section 13.1.5, such as cultural or historic resources, ecological resources, endangered species, wetlands, drinking water quality, radon, indoor air quality, asbestos, lead paint, PCBs in building materials and equipment, and mold.

The conclusions and recommendations presented herein are our professional opinion and are not a warranty or guaranty as to the presence, absence, or extent of contamination at the Subject Property or of releases from or near the Subject Property. The facts presented herein are based on available information obtained by EKI and represent existing conditions at the Subject Property at the time the information was collected.

EKI's performance of the requirements prescribed by the Final EPA AAI Rule is deemed completed and is consistent with EKI's scope of work in the Agreement between the User and EKI, dated 20 February 2019, and Addendum No. 2, dated 12 March 2019.

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Stantec, 2010a. *Additional Investigation Report, Former Texaco-branded Service Station 21-1179 975 North Shoreline Boulevard Mountain View, California,* Stantec, 16 December 2010.

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Stantec, 2011. *Well Destruction Report Former Texaco-branded Service Station 21-1179 975 North Shoreline Boulevard Mountain View, California,* Stantec, dated 24 June 2011.

WHA, 2016. *Phase I/II Environmental Site Assessment, Telewave Property, Mountain View, California,* Weber, Hayes & Associates, 15 November 2016.

TABLE 1
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS FOR
ORGANOCHLORINE PESTICIDES, PCBS, AND METALS
1001 North Shoreline Boulevard, Mountain View, California

Sample ID	Sample Date	Analytical Results (mg/kg) (a)								
		Organochlorine Pesticides						Metals		PCBs
		Chlordane	4,4-DDD	4,4-DDE	4,4-DDT	Dieldrin	Endosulfan I	Arsenic	Lead	Aroclor 1260
1001-SG-01-0.5-1.0	20-Mar-19	0.0142	<0.002	0.0062	<0.002	<0.002	<0.002	2.95	11.0	N/A
1001-SG-03-0.5-1.0	20-Mar-19	0.0119	0.00456	0.00907	0.00692	0.0098	<0.002	<2.50	12.3	N/A
1001-SG-03-2.5-3.0	20-Mar-19	0.0332	0.00253	<0.002	0.00303	<0.002	<0.002	3.90	10.9	N/A
1001-SG-04-0.5-1.0	20-Mar-19	0.0098	<0.002	0.00531	<0.002	0.0119	<0.002	<2.50	8.51	N/A
1001-SG-04-2.5-3.0	20-Mar-19	<0.002	<0.002	0.00496	<0.002	<0.002	<0.002	<2.50	9.1	N/A
1001-SG-06-0.5-1.0	20-Mar-19	0.0178	0.00306	0.0104	<0.002	0.0109	<0.002	<2.50	13.0	N/A
1001-SG-06-2.5-3.0	20-Mar-19	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	2.53	13.3	N/A
1001-SG-07-0.5-1.0	20-Mar-19	0.0222	0.00333	0.012	0.00209	0.00973	0.00221	<2.50	13.4	N/A
1001-SG-07-2.5-3.0	20-Mar-19	0.186	0.0144	0.0582	0.0278	0.00871	0.00698	3.53	54.8	N/A
1001-SG-08-0.5-1.0	20-Mar-19	0.0032	<0.002	0.00402	<0.002	0.0126	<0.002	3.31	23.0	N/A
1001-SG-09-0.5-1.0	20-Mar-19	0.0222	0.00265	0.00427	<0.002	0.0104	0.00233	<2.50	11.6	N/A
1001-BH-01-0.5-1.0	22-Mar-19	0.0076	0.00257	0.0104	<0.002	<0.002	<0.002	2.67	15.8	N/A
1001-BH-02-0.5-1.0	22-Mar-19	0.0073	<0.002	0.00372	<0.002	<0.002	<0.002	2.76	14.0	N/A
1001-BH-02-2.5-3.0	22-Mar-19	0.0022	<0.002	<0.002	0.00219	<0.002	<0.002	<2.50	6.48	N/A
1001-BH-03-0.5-1.0	22-Mar-19	0.0062	<0.002	0.00367	<0.002	<0.002	<0.002	<2.50	10.2	N/A
1001-BH-04-0.5-1.0	22-Mar-19	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<2.50	4.37	N/A
1001-BH-04-2.5-3.0	22-Mar-19	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<2.50	6.29	N/A
1001-BH-05-0.5-1.0	22-Mar-19	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<2.50	4.20	N/A
1001-BH-05-2.5-3.0	22-Mar-19	<0.002	0.00222	0.00541	<0.002	<0.002	<0.002	<2.50	14.6	N/A
1001-BH-06-0.5-1.0	22-Mar-19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.622
1001-BH-06-2.5-3.0	22-Mar-19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<0.025
1001-BH-07-0.5-1.0	21-Mar-19	0.0051	<0.002	0.00715	<0.002	0.0114	<0.002	2.52	13.6	N/A
Residential Screening Level (b)		*0.48*	*2.7*	*1.8*	*1.9*	*0.037*	*420*	*11 (d)*	*82*	*1 (d)*

Abbreviations
"<": compound not detected at or above the indicated laboratory reporting limit
4,4-DDD: dichlorodiphenyldichloroethane
4,4-DDE: dichlorodiphenyldichloroethylene
4,4-DDT: dichlorodiphenyltrichloroethane
ESL: Environmental Screening Level (RWQCB, 2019)
mg/kg: milligrams per kilogram
N/A: compound not analyzed
PCBs: polychlorinated biphenyls

TABLE 1
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS FOR
ORGANOCHLORINE PESTICIDES, PCBS, AND METALS
1001 North Shoreline Boulevard, Mountain View, California

Notes

(a) Soil samples were analyzed by K-Prime, Inc. using U.S. EPA Method 8081A for organochlorine pesticides, U.S. EPA Method 6020 for metals, and U.S. EPA Method 8082 for PCBs. Only detected compounds are shown. Compounds detected above the residential screening level are presented in **bold**.

(b) Residential screening levels are the Direct Exposure Human Health Risk Level (Table S-1) ESLs (RWQCB, 2019).

(c) The ESL for arsenic is less than the typical background concentration in soil. The RWQCB has established a regional background concentration of 11 mg/kg for arsenic in soil (Duverge, 2011).

(d) In lieu of ESLs, PCB results were compared to the High Occupancy Use Cleanup Level of 1 mg/kg established in the Toxic Substances Control Act (40 CFR 761.61).

References

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RWQCB, 2019. *Update to Environmental Screening Levels,* San Francisco Bay Regional Water Quality Control Board, 24 January 2019.

TABLE 2
SUMMARY OF SOIL GAS SAMPLE ANALYTICAL RESULTS FOR
VOLATILE ORGANIC COMPOUNDS
1001 North Shoreline Boulevard, Mountain View, California

Sample ID	Sample Date	Analytical Results in (ug/m^3) (a)																				
		Benzene	Carbon tetrachloride	Chloroethane	Chloroform	Chloromethane	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Dichlorodifluoromethane	Ethylbenzene	Styrene	PCE	TCE	Toulene	1,1,1,-Trichloroethane	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m,p-Xylene	o-Xylene	Vinyl chloride
1001-SG-01	22-Mar-19	<12.8	<5.03	<2.11	<3.91	<1.65	4.2	10.2	**439**	136	5.14	<3.47	<3.41	<5.43	**130**	23	<4.37	<8.99	<3.93	<3.93	<6.95	<3.47	**18.5**
1001-SG-02	22-Mar-19	**4.74**	<1.26	<0.528	3.45	<0.413	1.52	5.47	27.0	27.2	5.32	2.01	<0.852	1.98	**140**	22.6	<1.09	3.61	2.17	<0.983	6.77	2.07	**8.25**
1001-SG-03	22-Mar-19	<6.39	<2.52	<1.06	3.12	<0.826	<1.62	<1.59	<1.59	<1.59	4.16	<1.74	<1.7	**33.7**	**136**	<7.54	<2.18	<4.5	<1.97	<1.97	<3.47	<1.74	<1.02
1001-SG-04	22-Mar-19	1.86	0.823	<0.264	**11.8**	1.07	6.95	0.971	1.49	<0.396	<0.495	<0.434	0.444	3.29	**70.5**	4.61	<0.546	2.92	0.603	<0.492	1.28	0.509	**2.07**
1001-SG-05	22-Mar-19	**7.76**	<0.629	4.81	2.42	4.45	<0.405	6.79	49.0	7.48	0.528	1.57	<0.426	2.36	5.78	18.9	<0.546	<1.12	1.61	<0.492	5.55	2.11	**20.9**
1001-SG-06	22-Mar-19	<6.39	<2.52	<1.06	<1.95	<0.826	0.54	<1.59	<1.59	<1.59	4.87	<1.74	<1.70	**319**	<2.15	8.91	<2.18	<4.50	<1.97	<1.97	<3.47	<1.74	<1.02
1001-SG-06 (dup)	22-Mar-19	<6.39	<2.52	<1.06	<1.95	<0.826	<1.62	<1.59	<1.59	<1.59	4.79	<1.74	<1.70	**372**	<2.15	10.2	<2.18	<4.50	<1.97	<1.97	<3.47	<1.74	<1.02
1001-SG-07	22-Mar-19	2.71	<0.629	<0.264	3.71	<0.207	<0.405	<0.397	<0.397	<0.396	5.25	1.97	<0.426	1.73	<0.537	19.9	<0.546	<3.83	1.55	<0.492	6.55	2.27	<0.256
1001-SG-08	22-Mar-19	2.66	<0.629	0.510	1.60	1.38	<0.405	<0.397	<0.397	<0.396	<0.495	1.02	<0.426	1.85	<0.537	11.1	<0.546	<1.12	4.60	0.890	3.69	1.21	<0.256
1001-SG-09	22-Mar-19	2.03	<0.629	<0.264	1.40	<0.207	<0.405	<0.397	<0.397	<0.396	2.13	<0.434	<0.426	<0.678	<0.537	7.07	<0.546	<1.12	<0.492	<0.492	<0.868	<0.434	<0.256
1001-SG-10	19-Apr-19	2.43	<0.629	<0.264	**4.29**	0.438	<0.405	<0.397	<0.397	<0.396	3.08	0.729	<0.426	**107**	<0.537	11.2	0.738	1.74	<0.492	<0.492	1.98	0.757	<0.256
1001-SG-11	19-Apr-19	2.16	<0.629	<0.264	2.07	0.438	<0.405	<0.397	<0.397	<0.396	1.60	0.884	<0.426	**179**	4.86	17.5	<0.546	0.588	<0.492	<0.492	1.47	0.826	<0.256
Residential Screening Level (b)		*3.2*	*2.2*	*350,000*	*4.1*	*3,100*	*58*	*2,400*	*280*	*2,800*	*--*	*37*	*31,000*	*15*	*16*	*10,000*	*35,000*	*--*	*--*	*--*	*3,500*	*3,500*	*0.32*

Abbreviations

"<": compound not detected at or above the indicated laboratory reporting limit
"--": no environmental screening value available
1,1-DCA: 1,1-dichloroethane
1,1-DCE: 1,1-dichloroethene
cis-1,2-DCE: cis-1,2-dichloroethene
trans-1,2-DCE: trans-1,2-dichloroethene
ESL: Environmental Screening Level (RWQCB, 2019)
PCE: Tetrachloroethane
TCE: Trichloroethane
ug/m^3: micrograms per cubic meter

Notes

(a) Soil gas samples were analyzed by K-Prime, Inc. using U.S. EPA Method TO-15. Only detected compounds are shown. Comopunds detected above the residential screening level are presented in **bold**.
(b) Residential screening levels are the Subslab Vapor Intrusion Human Health Risk Level (Table SG-1) ESLs (RWQCB, 2019).

References

RWQCB, 2019. *Update to Environmental Screening Levels,* San Francisco Bay Regional Water Quality Control Board, 24 January 2019.

TABLE 3
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL
RESULTS FOR VOLATILE ORGANIC COMPOUNDS
1001 North Shoreline Boulevard, Mountain View, California

Sample ID	Sample Date	Analytical Results in (ug/L) (a)											
		n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Isopropylbenzene	Naphthalene	n-Propylbenzene	PCE	TCE
1001-GW-1	21-Mar-19	<0.5	<0.5	<0.5	0.7	*27.5*	2.35	<0.5	<0.5	<1.0	<0.5	<0.5	***93.5***
1001-GW-2	21-Mar-19	<2.5	<2.5	<2.5	<2.5	***208***	<2.5	<2.5	<2.5	<5.0	<2.5	<2.5	***19.1***
1001-GW-3	21-Mar-19	<0.5	<0.5	<0.5	<0.5	2.44	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	***14.1***
1001-GW-4	21-Mar-19	<0.5	<0.5	<0.5	<0.5	*9.88*	0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5
1001-GW-4 (dup)	21-Mar-19	<0.5	<0.5	<0.5	<0.5	*9.79*	0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5
1001-GW-5	21-Mar-19	44.3	22.9	2.38	<1.0	<1.0	<1.0	2.32	43.5	3.32	172	<1.0	<1.0
Residential Screening Level (b)		--	--	--	*66*	*49*	*220*	*3.5*	--	*4.6*	--	*0.64*	*1.2*
MCL (b)		--	--	--	*6.0*	*6.0*	*10*	*30*	--	--	--	*5.0*	*5.0*

Abbreviations

"<": compound not detected at or above the indicated laboratory reporting limit
"--": no environmental screening value available
1,1-DCE: 1,1-dichloroethene
cis-1,2-DCE: cis-1,2-dichloroethene
trans-1,2-DCE: trans-1,2-dichloroethene
ESL: Environmental Screening Level (RWQCB, 2019)
MCL: Maximum Contaminant Level
TCE: Trichloroethane
ug/L: micrograms per liter

TABLE 3
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL
RESULTS FOR VOLATILE ORGANIC COMPOUNDS
1001 North Shoreline Boulevard, Mountain View, California

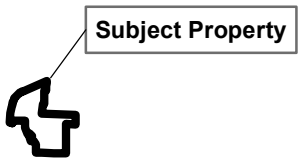
Notes

(a) Groundwater were analyzed by K-Prime, Inc. using U.S. EPA Method 8260. Only detected compounds are shown. Comopunds detected above the residential screening level are presented in **bold**. Compounds detected above the MCL are presented in *italics.*

(b) Residential screening levels are the Groundwater Vapor Intrusion Human Health Risk Level (Table GW-3) ESLs (RWQCB, 2019). MCLs are presented in Title 22 of the California Code of Regulations.

References

RWQCB, 2019. *Update to Environmental Screening Levels,* San Francisco Bay Regional Water Quality Control Board, 24 January 2019.



Notes
1. All locations are approximate.

Source
1. Basemap provided by ESRI's ArcGIS Online.

N

0 2,000 4,000

Feet

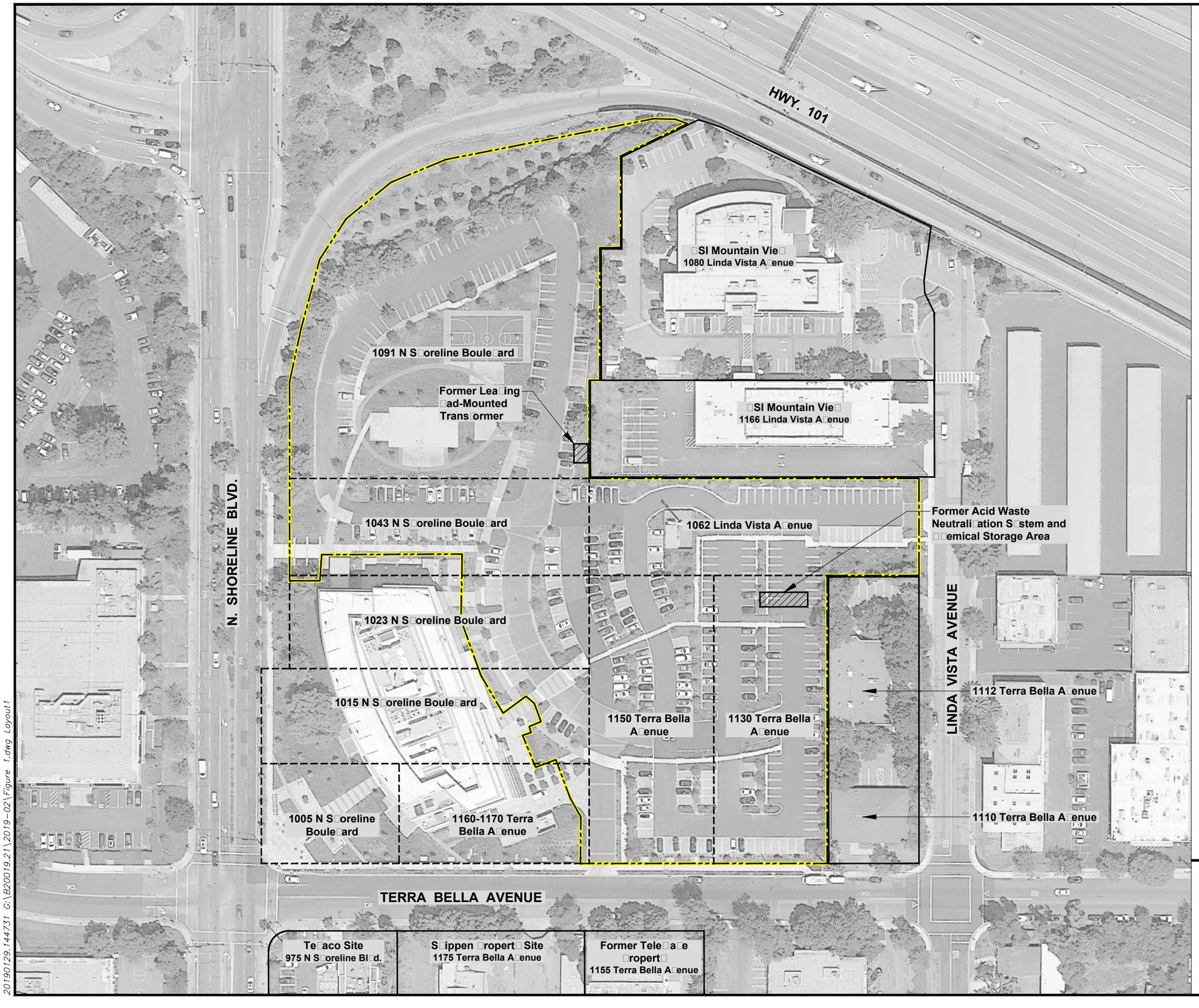
Subject Property Location

1001 North Shoreline Boulevard
Mountain View, CA
June 2019
EKI B80116.00

Figure 1

eki environment & water

Path: X:\B80116.00\Maps\...00\2019\05\Fig1_SPLoc.mxd



Legend:

- Approximate Subject Property Boundary
- Former Property Boundary
- Nearby Property

Notes:

1. All locations are approximate.
2. Basemap source: Google Earth Pro, date of imagery 9 August 2018.

N

0 100 200

(Scale in Feet)

Subject Property Setting

1001 N Shoreline Blvd.
Mountain View, CA
June 2019
EKI B80116.00

Figure 2

eki environment & water

20190129.144731 G:\B20019.21\2019-02\Figure 1.dwg Layout1

GW-4	3/21/2019
TCE	<0.5
cDCE	9.88 / 9.79

GW-5	3/21/2019
TCE	<1.0
cDCE	<1.0

1166-GW-3	5/31/2016
PCE	**2.2**
TCE	**1.6**
cDCE	4.7
tDCE	<0.50
VC	<0.50

1080-GW-9	5/31/2016
PCE	<0.50
TCE	**1.4**
cDCE	0.99
tDCE	<0.50
VC	<0.50

1080-GW-10	5/31/2016
PCE	<0.50
TCE	**1.3**
cDCE	1.2
tDCE	<0.50
VC	<0.50

1080-GW-7	5/31/2016
PCE	<1.2
TCE	**53**
cDCE	11
tDCE	<1.2
VC	<1.2

1080-GW-8	5/31/2016
PCE	**8.4**
TCE	**180**
cDCE	**79**
tDCE	<5.0
VC	<5.0

1080-GW-6	5/31/2016
PCE	<5.0
TCE	**180**
cDCE	10
tDCE	<5.0
VC	<5.0

MW-22H	2/11/2010	10/14/2010
TPHg	<50	--
TPHd	--	--
Benzene	<0.5	--

MW-22F	8/1/2006	11/29/2006
TPHg	<50	<50
TPHd	--	--
Benzene	<0.5	<0.5

MW-22E	2/11/2010	10/14/2010
TPHg	**9,900**	**7,700**
TPHd	--	**3,300**
Benzene	**130**	**58**

MW-22G	2/11/2010	10/14/2010
TPHg	<50	<50
TPHd	--	<50
Benzene	<0.5	<0.5

GW-2	3/21/2019
TCE	**19.1**
cDCE	208

DP-3	11/21/2000
TPHg	99
Benzene	**1.8**

1166-GW-4	5/31/2016
PCE	**20**
TCE	**2.3**
cDCE	1.1
tDCE	<0.50
VC	<0.50

1166-GW-5	5/31/2016
PCE	0.63
TCE	**4.4**
cDCE	4.7
tDCE	<0.50
VC	**0.60**

1166-GW-1	5/31/2016
PCE	**68**
TCE	**44**
cDCE	44
tDCE	3.0
VC	<1.7

1166-GW-2	5/31/2016
PCE	**76**
TCE	**35**
cDCE	17
tDCE	<1.7
VC	<1.7

MW-1	8/11/1988	6/27/2005
TCE	**16**	**33**
cDCE	--	7.6
tDCE	<5	<0.5

GW-3	3/21/2019
TCE	**14.1**
cDCE	2.44

MW-2	8/11/1988	6/27/2005
TCE	**300**	**46**
cDCE	--	5.2
tDCE	19	<0.5

MW-3	8/11/1988	6/27/2005
TCE	**40**	**46**
cDCE	--	9.0
tDCE	6	0.64

GW-1	3/21/2019
TCE	**93.5**
cDCE	27.5

1155-GW-1	8/9/2016
TCE	**29**
cDCE	30

1155-GW-3	8/9/2016
TCE	**1,100**
cDCE	**1,400**
tDCE	**280**
VC	**32**

1155-GW-4 (Deep)	8/9/2016
TCE	**6,600**
PCE	**26**
cDCE	**94** / 41
VC	**0.8**

1155-GW-4 (Shallow)	8/9/2016
TCE	**170**
cDCE	**84**

1155-GW-7	8/9/2016
TCE	**38**
cDCE	7.6

1155-GW-8	8/9/2016
TCE	**31**

1155-GW-5	8/9/2016
TCE	**49**

1155-GW-2	8/9/2016
TCE	**71**
cDCE	**47**

1155-GW-6	8/9/2016
TCE	**36**
cDCE	6.1

GW-10 GW-9 GW-8 GW-7 GW-6 GW-5 GW-4 GW-3 GW-2 GW-1 MW-22H MW-22E MW-22F MW-22G MW-1 MW-2 MW-3 DP-3 HP-2 MW-5A B HP-1 HP-3

HWY. 101

N. SHORELINE BLVD.

LINDA VISTA AVENUE

TERRA BELLA AVENUE

Legend:

- Approximate Subject Property Boundary
- Grab Groundwater Sampling Location (EKI, 2019)
- Abandoned Monitoring Wells (SCCDEH, 2011 and AWR, 2014)
- Grab Groundwater Sample Location (SCCDEH, 2001)
- Offsite Grab Groundwater Sample Location (by Others)
- Proposed Groundwater Sampling Location for 1155 Terra Bella Avenue (by Others)
- Compound Detected Above Vapor Intrusion ESL

Abbreviations:

cDCE	= cis-1,2-Dichloroethene
tDCE	= trans-1,2-Dichloroethene
ESLs	= Environmental Screening Levels
TCE	= trichloroethene
TPHd	= total petroleum hydrocarbons as diesel
TPHg	= total petroleum hydrocarbons as gasoline
VC	= vinyl chloride

Notes:

1. All locations are approximate.
2. Basemap source: Google Earth Pro, date of imagery 9 August 2018.
3. All groundwater sampling results are presented in micrograms per liter ("ug/L").
4. Groundwater concentrations above vapor intrusion ESLs are shown in **bold**.

Sources:

1. AWR, 2014. *Pha□e □Environmental Site □□e□ment, 11□0 □erra Bella □venue, Mountain View, California*, Applied Water Resources, dated 10 January 2014.
2. SCCDEH, 2011. *□uel □ea□ Site Ca□e Clo□ure □e□a□o, □□□ Shoreline □Stierlin □d□, Mountain View, C□□Ca□e No□□0□01□, SCV□ □□□ No□0□S□□ 1□M0□f*, Santa Clara County Department of Environmental Health, dated 26 July 2004.
3. SCS, 2016. *□imited Pha□e □□ra□ □roundwater Samplin□ □□tivitie□ and Con□eptual Site Model, 10□□ and 10□0 □inda Vi□ta □venue, Mountain View, California, SCC□E□ Voluntary Cleanup Pro□ram Ca□e 0□S□□ 1□M0□□*, SCS Engineers, dated 1 September 2016.
4. SCVWD, 2001. *□uel □ea□ Site Ca□e Clo□ure □Shippen Property 11□□ terra Bella, Mountain View, C□□Ca□e No□1□□□□□SCV□□□□ 0□□S□ 1□M0□f, Santa Clara Valley water □i□tri□t*, dated 17 July 2001.
5. WHA, 2016. *Pha□e □□□Environmental Site □□□e□ment, □elewave Property, Mountain View, California, □ e□er, □aye□□ □□□o□iate□*, dated 15 November 2016.

0 120 2□0
(Scale in Feet)

N

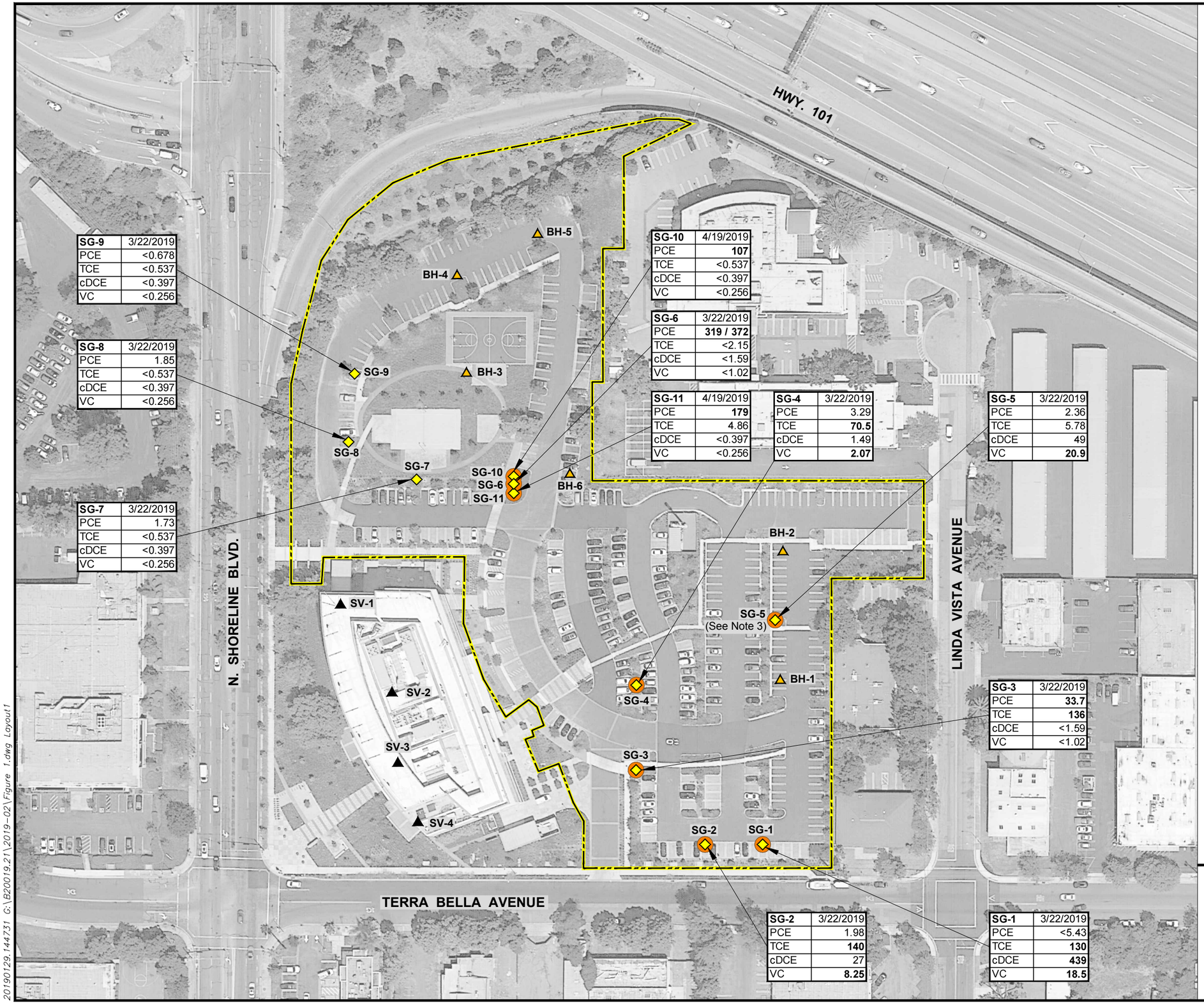
Ground□ater Sampling Results

1001 N Shoreline Blvd.
Mountain View, CA
June 2019
EKI B80116.00

Figure 3

eki environment & water

20190129.144731 G:\B20019.21\2019-02\Figure 1.dwg Layout1



SG-9	3/22/2019
PCE	<0.678
TCE	<0.537
cDCE	<0.397
VC	<0.256

SG-8	3/22/2019
PCE	1.85
TCE	<0.537
cDCE	<0.397
VC	<0.256

SG-7	3/22/2019
PCE	1.73
TCE	<0.537
cDCE	<0.397
VC	<0.256

SG-10	4/19/2019
PCE	**107**
TCE	<0.537
cDCE	<0.397
VC	<0.256

SG-6	3/22/2019
PCE	**319 / 372**
TCE	<2.15
cDCE	<1.59
VC	<1.02

SG-11	4/19/2019
PCE	**179**
TCE	4.86
cDCE	<0.397
VC	<0.256

SG-4	3/22/2019
PCE	3.29
TCE	**70.5**
cDCE	1.49
VC	**2.07**

SG-5	3/22/2019
PCE	2.36
TCE	5.78
cDCE	49
VC	**20.9**

SG-3	3/22/2019
PCE	**33.7**
TCE	**136**
cDCE	<1.59
VC	<1.02

SG-2	3/22/2019
PCE	1.98
TCE	**140**
cDCE	27
VC	**8.25**

SG-1	3/22/2019
PCE	<5.43
TCE	**130**
cDCE	**439**
VC	**18.5**

Legend:

- Approximate Subject Property Boundary
- Soil and Soil Gas Sampling Location (EKI, 2019)
- Soil Sampling Location (EKI, 2019)
- Soil Vapor Sample Location (CEG, 2015)
- Compound Detected Above Vapor Intrusion ESL

Abbreviations:

ESLs	= Environmental Screening levels
ug/m³	= micrograms per cubic meter
cDCE	= cis-1,2-Dichloroethene
PCE	= tetrachloroethane
TCE	= trichloroethene
VC	= vinyl chloride

Notes:

1. All locations are approximate.
2. Basemap source: Google Earth Pro, date of imagery 9 August 2018.
3. The sampling location near the former acid neutralization system was sampled for soil gas only.
4. Concentrations in ug/m³. Soil gas concentrations above vapor intrusion ESLs are shown in **bold**.

Sources:

1. CEG, 2015. *Preliminary Soil Vapor Quality Evaluation, 1001 North Shoreline Boulevard, Mountain View, California,* Cornerstone Earth Group, dated 16 June 2015.

N

0 100 200

(Scale in Feet)

Selected Soil Gas Sampling Results

1001 N Shoreline Blvd.
Mountain View, CA
June 2019
EKI B80116.00

Figure 4

eki environment & water

20190129,144731 G:\B20019.21\2019-02\Figure 1.dwg Layout1

APPENDIX A

COPIES OF HISTORICAL SOURCES FOR INFORMATION

1001-1091 Stierlin Rd & 1130-1170 Terra Bella Ave
1001-1091 N Shoreline Blvd & 1062 Linda Vista Ave
Mountain View, CA 94043

Inquiry Number: 5592266.1
March 18, 2019

The EDR-City Directory Abstract

Environmental Data Resources Inc
6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1922 through 2014. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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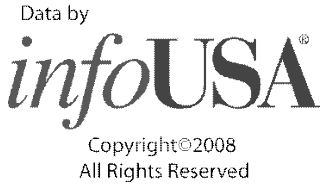

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2014	EDR Digital Archive	-	X	X	-
	EDR Digital Archive	X	X	X	-
2010	EDR Digital Archive	-	X	X	-
	EDR Digital Archive	X	X	X	-
2006	Haines Company, Inc.	-	-	-	-
2001	Haines Company, Inc.	-	X	X	-
	Haines Company, Inc.	X	X	X	-
2000	Haines Company	-	-	-	-
1996	Pacific Bell	-	-	-	-
1991	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1986	Pacific Bell	-	X	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1986	Pacific Bell	X	X	X	-
1985	Pacific Bell	-	X	X	-
1982	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1980	Pacific Telephone	-	X	X	-
1978	R. L. Polk & Co.	-	-	-	-
1975	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1974	R. L. Polk Co.	-	-	-	-
1970	R. L. Polk Co.	-	-	-	-
1968	R. L. Polk Co.	-	X	X	-
	R. L. Polk Co.	X	X	X	-
1966	R. L. POLK	-	-	-	-
1965	R. L. Polk Co.	-	-	-	-
1964	R. L. Polk Co.	-	-	-	-
1963	Pacific Telephone	-	X	X	-
1962	R. L. Polk & Co.	-	X	X	-
	R. L. Polk & Co.	X	X	X	-
1960	R. L. Polk Co.	-	-	-	-
1957	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1955	R.L. Polk and Co Publishers	-	-	-	-
1950	R. L. Polk Co.	-	-	-	-
1946	R. L. Polk Co.	-	-	-	-
1945	R. L. Polk Co.	-	-	-	-
1942	R.L. Polk	-	-	-	-
1940	R. L. Polk Co.	-	-	-	-
1936	R. L. Polk Co.	-	-	-	-
1935	R. L. Polk Co.	-	-	-	-
1931	R. L. Polk Co.	-	-	-	-
1930	R. L. Polk Co. of California	-	-	-	-
1926	R. L. Polk Co.	-	-	-	-
1925	R. L. Polk Co.	-	-	-	-
1922	R. L. Polk Co.	-	-	-	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	*Type*	*Findings*
1130 Terra Bella Ave	Client Entered	X
1150 Terra Bella Ave	Client Entered	X
1160 Terra Bella Ave	Client Entered	X
1170 Terra Bella Ave	Client Entered	X
1005 N Shoreline Blvd	Client Entered	X
1015 N Shoreline Blvd	Client Entered	
1023 N Shoreline Blvd	Client Entered	X
1043 N Shoreline Blvd	Client Entered	X
1001 N Shoreline Blvd	Client Entered	
1062 Linda Vista Ave	Client Entered	X
1001 Stierlin Rd	Client Entered	
1005 Stierlin Rd	Client Entered	X
1015 Stierlin Rd	Client Entered	X
1023 Stierlin Rd	Client Entered	X
1043 Stierlin Rd	Client Entered	X
1091 Stierlin Rd	Client Entered	X

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

1001-1091 N Shoreline Blvd & 1062 Linda Vista Ave
Mountain View, CA 94043

FINDINGS DETAIL

Target Property research detail.

Linda Vista Ave

1062 Linda Vista Ave

Year	Uses	Source
1991	HALTEK ELECTRONICS	Pacific Telephone
1986	Haltek Electronics	Pacific Bell
	TEST LAB CO	Pacific Bell
1982	Haltek Electronics	Pacific Telephone
	Test Lab Co	Pacific Telephone
1975	a Tg Systems	Pacific Telephone
	Atencio J	Pacific Telephone
	Upstart Crow & Co Warehouse	Pacific Telephone
1968	CO ELECTRONICS	R. L. Polk Co.
	OOHRMANN INSTRUMENTS	R. L. Polk Co.
1962	MEORROLAB INC DR H C EHRMANTRAUT PRES BRUCE MARSHALL V-PRES-SEC-TREAS LABOR	R. L. Polk & Co.
1957	STEEL J E	Pacific Telephone

N Shoreline Blvd

1001 N Shoreline Blvd

Year	Uses	Source

1005 N Shoreline Blvd

Year	Uses	Source
2014	FIESTA DEL MAR	EDR Digital Archive
2010	FIESTA DEL MAR	EDR Digital Archive
2001	FIESTA DEL MAR	Haines Company, Inc.
1991	EAT N RUN	Pacific Telephone

FINDINGS

1015 N Shoreline Blvd

Year	Uses	Source

1023 N Shoreline Blvd

Year	Uses	Source
2014	AEROPRISE INC	EDR Digital Archive
	ANDUIN I LP	EDR Digital Archive
	CACS GOVERNMENT RESEARCH	EDR Digital Archive
	CAS ARCHITECTS INC	EDR Digital Archive
	OPENGOV INC	EDR Digital Archive
	TIBERIUS VENTURE PARTNERS I LP	EDR Digital Archive
	XRS CONSULTING LLC	EDR Digital Archive
2010	5440 COMPANY LLC	EDR Digital Archive
	AEROPRISE INC	EDR Digital Archive
	ANDUIN CAPITAL MANAGEMENT LLC	EDR Digital Archive
	ANDUIN I LP	EDR Digital Archive
	CACS GOVERNMENT RESEARCH	EDR Digital Archive
	CAS ARCHITECTS INC	EDR Digital Archive
	TIBERIUS VENTURE PARTNERS I LP	EDR Digital Archive
2001	GLOBAL LINX	Haines Company, Inc.
	NETWORK	Haines Company, Inc.
1991	QUICKTURN SYSTEMS INC	PACIFIC BELL WHITE PAGES
	COMPREHENSIVE ARCHITECTURAL SERVICES	Pacific Telephone
	STATE FARM INSURANCE CLAIMS OFFICES	Pacific Telephone

1043 N Shoreline Blvd

Year	Uses	Source
2014	FLYDATA INC	EDR Digital Archive
2010	ETTUS RESEARCH LLC	EDR Digital Archive
	FLYTECOMM INC	EDR Digital Archive
	LIGHTSWITCH SAFETY SYSTEMS	EDR Digital Archive
	ROCKSOLID DESIGN INC	EDR Digital Archive
2001	ANACON	Haines Company, Inc.
	CONSULTING ROCKSOLID DESIGN	Haines Company, Inc.
	CUSTOMERSATCOM	Haines Company, Inc.
	LLOYD RITTER	Haines Company, Inc.

FINDINGS

1091 N Shoreline Blvd

Year	Uses	Source
2014	AGILONE INC	EDR Digital Archive
	DILLENBACK LOMANTO	EDR Digital Archive
	JW EQUITIES LLC	EDR Digital Archive
	LAWSON-HAWKS INSURANCE AGENCY	EDR Digital Archive
	OL2 INC	EDR Digital Archive
	ONLIVE INC	EDR Digital Archive
2010	A TAD OJOHN INC	EDR Digital Archive
	CELLMANIA	EDR Digital Archive
	DILLENBACK LOMANTO	EDR Digital Archive
	FANFARE GROUP INC	EDR Digital Archive
	JW EQUITIES LLC	EDR Digital Archive
	LAWSON-HAWKS INSURANCE AGENCY	EDR Digital Archive
	PACIFIC REGIONAL HEALTH	EDR Digital Archive

SHORELINE BLVD N

1005 SHORELINE BLVD N

Year	Uses	Source
2001	FIESTA DEL MAR	Haines Company, Inc.
1991	EAT N RUN	Pacific Telephone

1043 SHORELINE BLVD N

Year	Uses	Source
2001	ANACON	Haines Company, Inc.
	CONSULTING ROCKSOLID DESIGN	Haines Company, Inc.
	CUSTOMERSATCOM	Haines Company, Inc.
	LLOYD RITTER	Haines Company, Inc.

1091 SHORELINE BLVD N

Year	Uses	Source
2001	ANGARA E COMMERCE	Haines Company, Inc.
	CELLMANIA	Haines Company, Inc.
1991	BIOCAD CORPORATION	Pacific Telephone
	TIARA COMPUTER SYSTEMS INC	Pacific Telephone

FINDINGS

Stierlin Rd

1001 Stierlin Rd

Year	*Uses*	*Source*

1005 Stierlin Rd

Year	*Uses*	*Source*
2001	BERTOZZIMarco	Haines Company, Inc.
1986	EATN RUN	Pacific Bell

1015 Stierlin Rd

Year	*Uses*	*Source*
2001	BERTOZZIMarco	Haines Company, Inc.
1986	LYNCH MIKE	Pacific Bell
1982	Fleskes D	Pacific Telephone
1975	Bertozzi Robt S	Pacific Telephone
1968	VACANT	R. L. Polk Co.
1962	GROVER RONALD C (JEANETTE) USAF	R. L. Polk & Co.
1957	BAILEY RAYMOND	Pacific Telephone

1023 Stierlin Rd

Year	*Uses*	*Source*
2001	XXXX	Haines Company, Inc.
1986	STATE FARM INSURANCE CLAIMS OFFICES	Pacific Bell
1982	RUDOLPH & SLETTEN INC	Pacific Telephone

1043 Stierlin Rd

Year	*Uses*	*Source*
2001	XXXX	Haines Company, Inc.
1986	APPLIED INTELLIGENCE INC	Pacific Bell
	VAN BROCKLIN P J	Pacific Bell
1982	Fielding Bruce G CPA	Pacific Telephone
	Locksley Frank W CPA	Pacific Telephone
	Standard Register Co The	Pacific Telephone
	Storek Fred C	Pacific Telephone
1975	Consolidated Information Co da Ut pr csng serv	Pacific Telephone
	Fielding Bruce G & Co CPA	Pacific Telephone
	Locksley Frank W CPA	Pacific Telephone

FINDINGS

Year	Uses	Source
1975	Standard Register Co The	Pacific Telephone
	Sunset Mc Kee Business Forms See Standard Register Co The	Pacific Telephone
1962	ARRELLANES HENRY (JENNY) CONSTN WKR	R. L. Polk & Co.
	ROMERO FRANK G (POLLY) CONSTN WKR	R. L. Polk & Co.
	SIQUEIROS CARLOS (BEATRICE) CLK PO	R. L. Polk & Co.
1957	ROMERO FRANK	Pacific Telephone

STIERLIN RD

1091 STIERLIN RD

Year	Uses	Source
1975	Cartier Julie	Pacific Telephone

Stierlin Rd

1091 Stierlin Rd

Year	Uses	Source
1975	Cartier Julie	Pacific Telephone

STIERLIN RD

1091 STIERLIN RD

Year	Uses	Source
1968	WILLIAMSON CHESTER BLDG CONTR	R. L. Polk Co.

Stierlin Rd

1091 Stierlin Rd

Year	Uses	Source
1968	WILLIAMSON CHESTER BLDG CONTR	R. L. Polk Co.

STIERLIN RD

1091 STIERLIN RD

Year	Uses	Source
1962	WILLIAMSON CHESTER W (ETHEL) GENI CONTR	R. L. Polk & Co.

FINDINGS

Stierlin Rd

1091 Stierlin Rd

Year	Uses	Source
1962	WILLIAMSON CHESTER W (ETHEL) GENI CONTR	R. L. Polk & Co.

STIERLIN RD

1091 STIERLIN RD

Year	Uses	Source
1957	WILLIAMSON CHESTER W CONTR	Pacific Telephone

Stierlin Rd

1091 Stierlin Rd

Year	Uses	Source
1957	WILLIAMSON CHESTER W CONTR	Pacific Telephone

Terra Bella Ave

1130 Terra Bella Ave

Year	Uses	Source
1991	F TRAX INC	Pacific Telephone
	PERIMETER PRODUCTS INC	Pacific Telephone
1986	Internatl Semiconductor Technologies	Pacific Bell
	MESA TECHNOLOGY	Pacific Bell
1982	PENNELL PLASTERING INC	Pacific Telephone
1975	PENNELL PLASTERING INC	Pacific Telephone
1968	GOFORTH CORDELIA MRS	R. L. Polk Co.
	REAR VACANT	R. L. Polk Co.

1150 Terra Bella Ave

Year	Uses	Source
2010	PENIASI BUATAVATAVA	EDR Digital Archive
2001	BERTOZZIMJ	Haines Company, Inc.
1991	Bertozzi M J	Pacific Telephone
1986	Bertozzi M J	Pacific Bell
1975	Bertozzi M J	Pacific Telephone
	Central Coast Moving	Pacific Telephone
1968	BERTOZZI MARCO J	R. L. Polk Co.

FINDINGS

1160 Terra Bella Ave

Year	Uses	Source
2001	MCCAULBdoce WEBLMPACTLLC	Haines Company, Inc.
1991	ALTO DESIGN GROUP INC	Pacific Telephone
1968	PRIME PUBLICATIONS INC	R. L. Polk Co.

1170 Terra Bella Ave

Year	Uses	Source
2010	OPTICAL TECHNOLOGY PARTNERS LP	EDR Digital Archive
2001	e OXIGRAF	Haines Company, Inc.
	WERKSTATT	Haines Company, Inc.
1986	Micro Electronic Hybrid Industries	Pacific Bell
1982	Plastic Center	Pacific Telephone
1968	PLASTICS CENTER INC BR	R. L. Polk Co.

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

LINDA VISTA AVE

973 LINDA VISTA AVE

Year	Uses	Source
2001	HARTSOGAlvie HARTSOG CHARLES H	Haines Company, Inc.
	CLEANSERV	Haines Company, Inc.
1991	MONROE & KARNES PAINTING	Pacific Telephone
	HARTSOG ASSOCIATES	Pacific Telephone
	C CULTURED FOODS CORPORATION	Pacific Telephone
1986	Monroe & Karnes Painting	Pacific Bell
	MONROE & KARNES PAINTING	Pacific Bell

976 LINDA VISTA AVE

Year	Uses	Source
1975	WRIGHT HAROLD	Pacific Telephone

980 LINDA VISTA AVE

Year	Uses	Source
1975	Farinon Special Products Div purchsng	Pacific Telephone
	C B ELECTRONICS	Pacific Telephone
	C B Electronics	Pacific Telephone
	Farinon Special Products Div	Pacific Telephone
1968	VACANT	R. L. Polk Co.

983 LINDA VISTA AVE

Year	Uses	Source
2001	MARTINAJosaph MARTINEZJohn	Haines Company, Inc.
1986	Chavez G M	Pacific Bell
	CHAVEZ G M	Pacific Bell
1982	Chavez G M	Pacific Telephone
1968	PENUNURI ARTH	R. L. Polk Co.
	REAR HERNANDES IGNACIO	R. L. Polk Co.
1962	VALDEZ ANTONIO (GLORIA) LAB	R. L. Polk & Co.
	VALDEZ PEDRO (TBOMASA) CEMENT MASON	R. L. Polk & Co.

FINDINGS

984 LINDA VISTA AVE

Year	Uses	Source
1985	LUICH JAS	Pacific Bell
	LUICH J M TRENCHING	Pacific Bell
1980	Luich Jas	Pacific Telephone
	Luich J M Trenching	Pacific Telephone
1975	LUICH J M TRENCHING	Pacific Telephone
1968	HIGA EDW	R. L. Polk Co.

986 LINDA VISTA AVE

Year	Uses	Source
1962	DIAZ FRANK	R. L. Polk & Co.

987 LINDA VISTA AVE

Year	Uses	Source
2001	MARTINAJoseph MARTINA LANDSCAPE	Haines Company, Inc.
1991	MARTINA & SONS LANDSCAPING	Pacific Telephone
1975	Habicht Erwin	Pacific Telephone
1968	TERRA BELLA AV	R. L. Polk Co.
	MABICHT ERWIN	R. L. Polk Co.
1962	HABICHT ERWIN	R. L. Polk & Co.

1012 LINDA VISTA AVE

Year	Uses	Source
2001	INTELLIGENTSENSOR	Haines Company, Inc.
1991	EDUCOMP SYSTEMS INC	Pacific Telephone
	ADMINISTRATIVE SOFTWARE APPLICATIONS INC	Pacific Telephone
1968	VACANT	R. L. Polk Co.
1962	GOFORTH ARTH J (PAULINE) CARP	R. L. Polk & Co.

1025 LINDA VISTA AVE

Year	Uses	Source
2001	XXXX	Haines Company, Inc.

1037 LINDA VISTA AVE

Year	Uses	Source
1963	Hook W W	Pacific Telephone

1045 LINDA VISTA AVE

Year	Uses	Source
2001	MILLER ROBERT	Haines Company, Inc.

FINDINGS

Year	Uses	Source
2001	MILLER ROBERT	Haines Company, Inc.
	PHOTOGRAPHY NERDS	Haines Company, Inc.
1991	WORLDWIDE PACKAGING & SHIPPING	Pacific Telephone
	A WEST COAST ENGINEERING INC	Pacific Telephone
1986	PLASTI GLASS INC	Pacific Bell
	Plasti Glass Inc	Pacific Bell
1982	Plasti Glass Inc	Pacific Telephone
	Rim Industries Inc	Pacific Telephone
1975	Plasti Glass Inc	Pacific Telephone
1962	LEWIS POOL FINISHING CO (J V LEWIS)	R. L. Polk & Co.

1049 LINDA VISTA AVE

Year	Uses	Source
2001	TREES Mantord TEST LAB C	Haines Company, Inc.
	TREES Manlord	Haines Company, Inc.
	SERVICES	Haines Company, Inc.
	ADVANCED MARINE	Haines Company, Inc.
1986	SHAMLIN CABINETS	Pacific Bell
	SHAMLIN CABINETS	Pacific Bell
1982	SHAMLIN CABINETS	Pacific Telephone
1975	SHAMLIN EARL C contr	Pacific Telephone
1968	SHAMLIN EARL C CABTMKR	R. L. Polk Co.

1066 LINDA VISTA AVE

Year	Uses	Source
1991	TEST LAB CO	Pacific Telephone
1975	Gard Irene	Pacific Telephone
	Card More Circuits Inc	Pacific Telephone
1968	TECHNOLOGY CORP	R. L. Polk Co.
	DIVISION OF DATA	R. L. Polk Co.
	PRINTED CIRCUIT	R. L. Polk Co.

1070 LINDA VISTA AVE

Year	Uses	Source
2001	XXXX	Haines Company, Inc.
1968	FLOW PHARMACEUTICALS INC	R. L. Polk Co.

FINDINGS

1080 LINDA VISTA AVE

Year	Uses	Source
2001	XXXX	Haines Company, Inc.
1991	DESIGN SYSTEMS GROUP	Pacific Telephone
1986	ROBB JACK CORP	Pacific Bell
	ROBB JACK CORP	Pacific Bell
	ROBB JACK CORP	Pacific Bell
1985	ROBB-JACK CORP	Pacific Bell
1982	Sage Enterprises Inc	Pacific Telephone
1980	ROBB JACK CORP	Pacific Telephone
1975	Phemco	Pacific Telephone

1090 LINDA VISTA AVE

Year	Uses	Source
1962	GUDES ADOLPH & SONS (CHAS G WHIPPY) FOOD PRODUCTS	R. L. Polk & Co.

LINDA VISTA DR

986 LINDA VISTA DR

Year	Uses	Source
1957	RULLAMAS D B	Pacific Telephone

1012 LINDA VISTA DR

Year	Uses	Source
1957	GOFORTH A J	Pacific Telephone

1066 LINDA VISTA DR

Year	Uses	Source
1975	COLLIER W H MRS L	Pacific Telephone

1086 LINDA VISTA DR

Year	Uses	Source
1975	ROBINSON ROBT A L	Pacific Telephone

1096 LINDA VISTA DR

Year	Uses	Source
1975	EVANS A KENNETH L	Pacific Telephone

FINDINGS

LINDA VISTA WAY

1080 LINDA VISTA WAY

Year	Uses	Source
1986	DELTA RESEARCH GROUP	Pacific Bell
	Delta Research Group	Pacific Bell
1982	ROBB JIACK CORP	Pacific Telephone

LYNDALE AVE

1002 LYNDALE AVE

Year	Uses	Source
1986	Runyan P	Pacific Bell

1015 LYNDALE AVE

Year	Uses	Source
1985	THURN JOS A	Pacific Bell

N Shoreline Blvd

850 N Shoreline Blvd

Year	Uses	Source
2014	TERRA LYCOS	EDR Digital Archive
	XORA INC	EDR Digital Archive
	TERRA LYCOS	EDR Digital Archive
	XORA INC	EDR Digital Archive
2010	TERRA LYCOS	EDR Digital Archive
	SERUS	EDR Digital Archive
	SERUS	EDR Digital Archive
	TERRA LYCOS	EDR Digital Archive

883 N Shoreline Blvd

Year	Uses	Source
2014	GRAPHSQL INC	EDR Digital Archive
	SOMASOFT SOLUTIONS INC	EDR Digital Archive
	LIKEWISE LLC	EDR Digital Archive
	DISMAN-BAKNER INC	EDR Digital Archive
	SOUTHWEST LP 59TH AVE PROPERTY	EDR Digital Archive
	FOX TECHNOLOGIES INC	EDR Digital Archive
	LAWSON HAWKS INSURANCE	EDR Digital Archive
	SOFTWAREHOUSE CORP	EDR Digital Archive

FINDINGS

Year	Uses	Source
2014	JFP INVESTMENT GROUP	EDR Digital Archive
	1804 SHORELINE INVESTORS LLC	EDR Digital Archive
	SINACOM ONLINE	EDR Digital Archive
	APROPOSE INC	EDR Digital Archive
	VIRALOGY INC	EDR Digital Archive
	SINACOM TECH CHINA CO LTD	EDR Digital Archive
	HENG YANG	EDR Digital Archive
	J & L CONSULTING INTL LLC	EDR Digital Archive
	THERAPEUTIC LEARNING AND CONS	EDR Digital Archive
	BAYLIGHT CHURCH COMMUNITY	EDR Digital Archive
	DECISION SYSTEMS	EDR Digital Archive
	SOPHELEUS ASSOCIATES & CO	EDR Digital Archive
	FINANCIAL NAVIGATOR INTL	EDR Digital Archive
	GLOBAL HEALTH PASS (GHP) INC	EDR Digital Archive
	GRAPHSQL INC	EDR Digital Archive
	J & L CONSULTING INTL LLC	EDR Digital Archive
	SOMASOFT SOLUTIONS INC	EDR Digital Archive
	THERAPEUTIC LEARNING AND CONS	EDR Digital Archive
	LIKEWISE LLC	EDR Digital Archive
	SOUTHWEST LP 59TH AVE PROPERTY	EDR Digital Archive
	DISMAN-BAKNER INC	EDR Digital Archive
	LAWSON HAWKS INSURANCE	EDR Digital Archive
	JFP INVESTMENT GROUP	EDR Digital Archive
	1804 SHORELINE INVESTORS LLC	EDR Digital Archive
	FOX TECHNOLOGIES INC	EDR Digital Archive
	SOFTWAREHOUSE CORP	EDR Digital Archive
	SINACOM ONLINE	EDR Digital Archive
	FINANCIAL NAVIGATOR INTL	EDR Digital Archive
	APROPOSE INC	EDR Digital Archive
	SINACOM TECH CHINA CO LTD	EDR Digital Archive
	BAYLIGHT CHURCH COMMUNITY	EDR Digital Archive
	VIRALOGY INC	EDR Digital Archive
	DECISION SYSTEMS	EDR Digital Archive
	SOPHELEUS ASSOCIATES & CO	EDR Digital Archive
	GLOBAL HEALTH PASS (GHP) INC	EDR Digital Archive
	HENG YANG	EDR Digital Archive
2010	IMPERIAL SOFTWARE SOLUTIONS	EDR Digital Archive
	SOMASOFT SOLUTIONS INC	EDR Digital Archive

FINDINGS

Year	Uses	Source
2010	QUOVERA INC	EDR Digital Archive
	SINACOM TECH CHINA CO LTD	EDR Digital Archive
	DECISION SYSTEMS	EDR Digital Archive
	GO AND LOVE FOUNDATION	EDR Digital Archive
	FINANCIAL NAVIGATOR INTL	EDR Digital Archive
	MUSIC FOR MINORS INC	EDR Digital Archive
	FOX TECHNOLOGIES INC	EDR Digital Archive
	SOFTWAREHOUSE CORP	EDR Digital Archive
	DISMAN-BAKNER INC	EDR Digital Archive
	SOUTHWEST LP 59TH AVE PROPERTY	EDR Digital Archive
	1804 SHORELINE INVESTORS LLC	EDR Digital Archive
	SINANET INC	EDR Digital Archive
	FLASHSOFT	EDR Digital Archive
	SPLASHPOINT ASIA INC	EDR Digital Archive
	Q LAYER CORP	EDR Digital Archive
	HENG YANG	EDR Digital Archive
	QBZ NEWCO INC	EDR Digital Archive
	RUCKUS WIRELESS	EDR Digital Archive
	DECISION SYSTEMS	EDR Digital Archive
	QUOVERA INC	EDR Digital Archive
	IMPERIAL SOFTWARE SOLUTIONS	EDR Digital Archive
	GO AND LOVE FOUNDATION	EDR Digital Archive
	SINACOM TECH CHINA CO LTD	EDR Digital Archive
	SOMASOFT SOLUTIONS INC	EDR Digital Archive
	MUSIC FOR MINORS INC	EDR Digital Archive
	FINANCIAL NAVIGATOR INTL	EDR Digital Archive
	FLASHSOFT	EDR Digital Archive
	SOUTHWEST LP 59TH AVE PROPERTY	EDR Digital Archive
	SPLASHPOINT ASIA INC	EDR Digital Archive
	Q LAYER CORP	EDR Digital Archive
	SOFTWAREHOUSE CORP	EDR Digital Archive
	QBZ NEWCO INC	EDR Digital Archive
	SINANET INC	EDR Digital Archive
	HENG YANG	EDR Digital Archive
	FOX TECHNOLOGIES INC	EDR Digital Archive
	1804 SHORELINE INVESTORS LLC	EDR Digital Archive
	DISMAN-BAKNER INC	EDR Digital Archive
	RUCKUS WIRELESS	EDR Digital Archive

FINDINGS

900 N Shoreline Blvd

Year	Uses	Source
2014	VITA INSURANCE ASSOC INC	EDR Digital Archive
	VITA INSURANCE ASSOC INC	EDR Digital Archive
2010	VITA INSURANCE ASSOC INC	EDR Digital Archive
	VITA INSURANCE ASSOC INC	EDR Digital Archive

967 N Shoreline Blvd

Year	Uses	Source
2014	EYE-FI INC	EDR Digital Archive
	EYE-FI INC	EDR Digital Archive
2010	967 SHORELINE ASSOCIATES	EDR Digital Archive
	INTRAPACE INC	EDR Digital Archive
	RITA MEDICAL SYSTEMS INC	EDR Digital Archive
	INTRAPACE INC	EDR Digital Archive
	967 SHORELINE ASSOCIATES	EDR Digital Archive
	RITA MEDICAL SYSTEMS INC	EDR Digital Archive

975 N Shoreline Blvd

Year	Uses	Source
2014	YUM BRANDS INC	EDR Digital Archive
2010	YUM BRANDS INC	EDR Digital Archive

S SHORELINE BLVD

1160 S SHORELINE BLVD

Year	Uses	Source
1986	CCC WALLPAPER	Pacific Bell

SHORELINE BLVD N

943 SHORELINE BLVD N

Year	Uses	Source
2001	PUBLICATIONS	Haines Company, Inc.
	HARRY KWONG	Haines Company, Inc.
1991	PENN ELECTRICAL CORP	Pacific Telephone
	PECS HOBBY SUPPLIES	Pacific Telephone

947 SHORELINE BLVD N

Year	Uses	Source
2001	XXXX	Haines Company, Inc.

FINDINGS

967 SHORELINE BLVD N

Year	Uses	Source
2001	SYSTEMS	Haines Company, Inc.
	BROWN Knsln COHESIVENETWORK	Haines Company, Inc.
1991	COSTA DISTRIBUTING SERVICE	Pacific Telephone
	COSTA DISTRIBUTING	Pacific Telephone

975 SHORELINE BLVD N

Year	Uses	Source
2001	TACOBELL	Haines Company, Inc.
1991	TRANS BAY EXXON	Pacific Telephone
	MARIOS AUTO SERVICE	Pacific Telephone

STIERLIN RD

917 STIERLIN RD

Year	Uses	Source
1975	Og Ies Sharon	Pacific Telephone
1968	PRITCHARD HERBERT C	R. L. Polk Co.
1962	PRITCHARD HERBERT C (HORTENSE) HOD CARRIER	R. L. Polk & Co.
	PRITCHARD JEANETTE MRS	R. L. Polk & Co.

943 STIERLIN RD

Year	Uses	Source
2001	XXXX	Haines Company, Inc.
1986	Penn Electrical Corp	Pacific Bell
	PENN ELECTRICAL CORP	Pacific Bell
1982	Penn Electrical Corp	Pacific Telephone
1975	Penn Electrical Corp	Pacific Telephone
1968	REAR TRIANA PLUMBING & HEATING	R. L. Polk Co.
	PENN ELECTRICAL CORP CONTR	R. L. Polk Co.
	MARDIX INC ELECTRONIC	R. L. Polk Co.

949 STIERLIN RD

Year	Uses	Source
1986	SWITCHES INC	Pacific Bell
	WESELOH SWANSON & ASSOCIATES	Pacific Bell
	Target Electronics Inc	Pacific Bell
	TARGET ELECTRONICS INC	Pacific Bell
1982	Switches Inc	Pacific Telephone

FINDINGS

Year	Uses	Source
1968	VACANT 949 THRU	R. L. Polk Co.
1962	BARNES BARNEY SIGNS	R. L. Polk & Co.
	HIXON LEROY ATNDT STOAN S TEXACO SERVICE	R. L. Polk & Co.
	HIXON GUY L (JANICE) MECH STAN S TEXACO SERVICE	R. L. Polk & Co.
	BARNES BARNEY SIGNS	R. L. Polk & Co.
1957	BARNES BARNEY SGNS	Pacific Telephone

967 STIERLIN RD

Year	Uses	Source
1986	FARINON VIDEO	Pacific Bell
	HARRIS BROADCAST MICROWAVE OPERATION	Pacific Bell
	Farinon Video	Pacific Bell
1975	Farinon Microwave	Pacific Telephone
1962	FUKADA FRANK (MARIAN) NURSERY	R. L. Polk & Co.
	FUKADA FRANK (MARIAN) NURSERY	R. L. Polk & Co.
1957	FUKADA TAKASHI	Pacific Telephone
	YAMASHITA IWAO	Pacific Telephone

975 STIERLIN RD

Year	Uses	Source
2001	SCHLOBOHMJohn	Haines Company, Inc.
1986	A & S Texaco	Pacific Bell
	A & S TEXACO	Pacific Bell
1982	Texaco	Pacific Telephone
1975	U Haul Company Dealers	Pacific Telephone
1968	TERRA BELLA ST	R. L. Polk Co.
	CLIFFS TEXACO SERVICE	R. L. Polk Co.
1962	STAN S TEXSACO SERVICE (WALTER E STANCIL) GAS STA	R. L. Polk & Co.

1005 STIERLIN RD

Year	Uses	Source
2001	BERTOZZIMarco	Haines Company, Inc.
1986	EATN RUN	Pacific Bell
	EATN RUN	Pacific Bell

FINDINGS

1015 STIERLIN RD

Year	Uses	Source
2001	BERTOZZIMarco	Haines Company, Inc.
1986	LYNCH MIKE	Pacific Bell
	Lynch Mike	Pacific Bell
1982	Fleskes D	Pacific Telephone
1975	Bertozzi Robt S	Pacific Telephone
1968	VACANT	R. L. Polk Co.
1962	GROVER RONALD C (JEANETTE) USAF	R. L. Polk & Co.
1957	BAILEY RAYMOND	Pacific Telephone

1017 STIERLIN RD

Year	Uses	Source
1957	SOMNIMERS RUSSELL	Pacific Telephone
	DENBY T D	Pacific Telephone

1019 STIERLIN RD

Year	Uses	Source
1962	POSTON CHAS W (DONNA J) CONSTN WKR	R. L. Polk & Co.

1021 STIERLIN RD

Year	Uses	Source
2001	XXXX	Haines Company, Inc.
1957	COLLEY JAS V	Pacific Telephone

1043 STIERLIN RD

Year	Uses	Source
2001	XXXX	Haines Company, Inc.
1986	VAN BROCKLIN P J	Pacific Bell
	APPLIED INTELLIGENCE INC	Pacific Bell
	Applied Intelligence Inc	Pacific Bell
1982	Storek Fred C	Pacific Telephone
	Locksley Frank W CPA	Pacific Telephone
	Fielding Bruce G CPA	Pacific Telephone
	Standard Register Co The	Pacific Telephone
1975	Sunset Mc Kee Business Forms See Standard Register Co The	Pacific Telephone
	Standard Register Co The	Pacific Telephone
	Locksley Frank W CPA	Pacific Telephone
	Fielding Bruce G & Co CPA	Pacific Telephone

Year	Uses	Source
1975	Consolidated Information Co da Ut pr csng serv	Pacific Telephone
1962	SIQUEIROS CARLOS (BEATRICE) CLK PO	R. L. Polk & Co.
	ROMERO FRANK G (POLLY) CONSTN WKR	R. L. Polk & Co.
	ARRELLANES HENRY (JENNY) CONSTN WKR	R. L. Polk & Co.
1957	ROMERO FRANK	Pacific Telephone

1093 STIERLIN RD

Year	Uses	Source
1957	WOODHOUSE RALPH G	Pacific Telephone

1101 STIERLIN RD

Year	Uses	Source
1957	NADEAU H	Pacific Telephone

TERRA BELLA AVE

1090 TERRA BELLA AVE

Year	Uses	Source
2001	ANTHONY Harry	Haines Company, Inc.
1986	Advanced Photo Chemical Inc	Pacific Bell
	ADVANCED PHOTO CHEMICAL INC	Pacific Bell
1982	MPA Pool Products	Pacific Telephone
	MPASales	Pacific Telephone
	Advanced Photo Industrial Sales Supply Division Of Advanced Photo Chemical Inc	Pacific Telephone
	Advanced Solar Installations	Pacific Telephone
1975	Jasco Cihemnical Corporation	Pacific Telephone
1968	JASCO CHEMICAL CORP	R. L. Polk Co.
	PAINT REMOVER	R. L. Polk Co.
	TERRA BELLA AV Contd	R. L. Polk Co.

Terra Bella Ave

1110 Terra Bella Ave

Year	Uses	Source
2014	CALIFORNIA EZRA BIBLE ACADEMY	EDR Digital Archive
	CALIFORNIA EZRA BIBLE ACADEMY	EDR Digital Archive

FINDINGS

TERRA BELLA AVE

1110 TERRA BELLA AVE

Year	Uses	Source
2001	TADROSAzmy	Haines Company, Inc.
1991	CALIFORNIA ENGINEERING CONTRACTORS INC	Pacific Telephone
1986	CALIFORNIA ENGINEERING CONTRACTORS INC	Pacific Bell
	LASER LINE INC	Pacific Bell
	California Engineering Contractors Inc	Pacific Bell
	Laser Line Inc	Pacific Bell
1982	California Engineering Contractors Inc	Pacific Telephone
	Laser Une inc	Pacific Telephone

Terra Bella Ave

1145 Terra Bella Ave

Year	Uses	Source
2014	AMARANTH MEDICAL INC	EDR Digital Archive
	BENTON MEDICAL EQUIPMENT INC	EDR Digital Archive
	BENTON MEDICAL EQUIPMENT INC	EDR Digital Archive
	AMARANTH MEDICAL INC	EDR Digital Archive
2010	AMARANTH MEDICAL INC	EDR Digital Archive
	AMARANTH MEDICAL INC	EDR Digital Archive

TERRA BELLA AVE

1145 TERRA BELLA AVE

Year	Uses	Source
2001	WELLSJ	Haines Company, Inc.
1991	CORROSION ENGINEERING	Pacific Telephone
	MAC DOCTOR ELECTRONICS	Pacific Telephone
1986	ABACUS ELECTRONICS COMPANY INC	Pacific Bell
	ABACUS ELECTRONICS COMPANY INC	Pacific Bell
1975	Chromatix	Pacific Telephone

FINDINGS

Terra Bella Ave

1155 Terra Bella Ave

Year	Uses	Source
2014	TELEWAVE INC	EDR Digital Archive
	DOGGIEVILLE LLC	EDR Digital Archive
	TELEWAVE INC	EDR Digital Archive
	DOGGIEVILLE LLC	EDR Digital Archive
2010	TELEWAVE INC	EDR Digital Archive
	DOGGIEVILLE LLC	EDR Digital Archive
	DOGGIEVILLE LLC	EDR Digital Archive
	TELEWAVE INC	EDR Digital Archive

TERRA BELLA AVE

1155 TERRA BELLA AVE

Year	Uses	Source
1991	TELEWAVE INC	Pacific Telephone
1986	TELEWAVE INC	Pacific Bell
	Telewave Inc	Pacific Bell
1982	WESCORP	Pacific Telephone
1968	CIRCO INC	R. L. Polk Co.

1160 TERRA BELLA AVE

Year	Uses	Source
2001	MCCAULBdoce WEBLMPACTLLC	Haines Company, Inc.
1991	ALTO DESIGN GROUP INC	Pacific Telephone
1968	PRIME PUBLICATIONS INC	R. L. Polk Co.

Terra Bella Ave

1175 Terra Bella Ave

Year	Uses	Source
2014	CREW CIVILIAN RESPONSE	EDR Digital Archive
	CREW CIVILIAN RESPONSE	EDR Digital Archive

TERRA BELLA AVE

1175 TERRA BELLA AVE

Year	Uses	Source
2001	XXXX	Haines Company, Inc.

Year	Uses	Source
1968	CEMENT CONTR	R. L. Polk Co.
	FOUNTAIN JOHN E	R. L. Polk Co.

Terra Bella Ave

1185 Terra Bella Ave

Year	Uses	Source
2014	0XDATA INC	EDR Digital Archive
	0XDATA INC	EDR Digital Archive
2010	CORE COMMUNICATION INC	EDR Digital Archive
	CHAN REGINA	EDR Digital Archive
	CORE COMMUNICATION INC	EDR Digital Archive
	CHAN REGINA	EDR Digital Archive

TERRA BELLA AVE

1185 TERRA BELLA AVE

Year	Uses	Source
2001	PSCASSOCIATES	Haines Company, Inc.
	PSC CONSULTANTS	Haines Company, Inc.
	PSCTESTING	Haines Company, Inc.
1991	STOUT JIM	Pacific Telephone
	VIEWGRAPHICS	Pacific Telephone
1986	Wally Crane photgrphy	Pacific Bell
	Stout Jim	Pacific Bell
	Murakami Ray & Associates	Pacific Bell
	Master Reps Inc	Pacific Bell
	Master Reps Inc	Pacific Bell
	Jones Tom Associates	Pacific Bell
	JONES TOM ASSOCIATES	Pacific Bell
	MASTER REPS INC	Pacific Bell
	MASTER REPS INC	Pacific Bell
	MURAKAMI RAY & ASSOCIATES	Pacific Bell
	STOUT JIM	Pacific Bell
	WALLY CRANE PHOTGRPHY	Pacific Bell
1982	Wally Crane photgrphy	Pacific Telephone
1975	Assurance Co	Pacific Telephone
	Attract Investmenit Co	Pacific Telephone
	CRI Pro erties	Pacific Telephone

FINDINGS

Year	Uses	Source
1968	GLENWOOD PLUMBING INC CONTR	R. L. Polk Co.

Terra Bella Ave

1212 Terra Bella Ave

Year	Uses	Source
2014	IRIS MEDICAL INSTRUMENTS INC	EDR Digital Archive
	IRIDEX CORPORATION	EDR Digital Archive
	IRIS MEDICAL INSTRUMENTS INC	EDR Digital Archive
	IRIDEX CORPORATION	EDR Digital Archive
2010	IRIDEX CORPORATION	EDR Digital Archive
	IRIS MEDICAL INSTRUMENTS INC	EDR Digital Archive
	IRIS MEDICAL INSTRUMENTS INC	EDR Digital Archive
	IRIDEX CORPORATION	EDR Digital Archive

TERRA BELLA AVE

1212 TERRA BELLA AVE

Year	Uses	Source
2001	IRIDERM	Haines Company, Inc.
1991	ABBOTT CRITICAL CARE	Pacific Telephone
1986	OXIMETRIX	Pacific Bell
	ABBOTT LABORATORIES I V PUMPS	Pacific Bell
	Oximetrix	Pacific Bell
	Abbott Laboratories I V Pumps	Pacific Bell
1982	Abbott Laboratories I V Pumps	Pacific Telephone
	Oximetrix	Pacific Telephone

Terra Bella Ave

1215 Terra Bella Ave

Year	Uses	Source
2014	ADDEPAR INC	EDR Digital Archive
	ADDEPAR INC	EDR Digital Archive
2010	OPENTV CORP	EDR Digital Archive
	OPENTV CORP	EDR Digital Archive

FINDINGS

TERRA BELLA AVE

1215 TERRA BELLA AVE

Year	Uses	Source
2001	r VALICERT	Haines Company, Inc.
	VALICERT	Haines Company, Inc.
1986	DATACOPY CORPORATION	Pacific Bell
	Datacopy Corporation	Pacific Bell
1975	Integrated Microsystems Inc	Pacific Telephone

1220 TERRA BELLA AVE

Year	Uses	Source
2001	XXXX	Haines Company, Inc.

Terra Bella Ave

1245 Terra Bella Ave

Year	Uses	Source
2010	POLYFUEL INC	EDR Digital Archive
	POLYFUEL INC	EDR Digital Archive

TERRA BELLA AVE

1245 TERRA BELLA AVE

Year	Uses	Source
2001	INTRABIOTICS	Haines Company, Inc.
	PHA 6 MACEUTICALS	Haines Company, Inc.

Terra Bella Ave

1255 Terra Bella Ave

Year	Uses	Source
2010	RESHAPE INC	EDR Digital Archive
	DIAMOND SYSTEMS CORPORATION	EDR Digital Archive
	RESHAPE INC	EDR Digital Archive
	DIAMOND SYSTEMS CORPORATION	EDR Digital Archive

FINDINGS

TERRA BELLA AVE

1155B TERRA BELLA AVE

Year	*Uses*	*Source*
1985	ACTION BUILDING MAINTENANCE	Pacific Bell
	DEPENDABLE SEWER & DRAIN CO	Pacific Bell

TERRA BELLA DR

1102 TERRA BELLA DR

Year	*Uses*	*Source*
1985	RUPP GLEN	Pacific Bell

1219 TERRA BELLA DR

Year	*Uses*	*Source*
1975	DESMOND FRANK T L	Pacific Telephone

FINDINGS

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
1002 LYNDALE AVE	2014, 2010, 2006, 2001, 2000, 1996, 1991, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1005 STIERLIN RD	2014, 2010, 2006, 2000, 1996, 1991, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1012 LINDA VISTA AVE	2014, 2010, 2006, 2000, 1996, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1966, 1965, 1964, 1963, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1012 LINDA VISTA DR	2014, 2010, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1015 LYNDALE AVE	2014, 2010, 2006, 2001, 2000, 1996, 1991, 1986, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1015 STIERLIN RD	2014, 2010, 2006, 2000, 1996, 1991, 1985, 1980, 1978, 1974, 1970, 1966, 1965, 1964, 1963, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1017 STIERLIN RD	2014, 2010, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1019 STIERLIN RD	2014, 2010, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1021 STIERLIN RD	2014, 2010, 2006, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1025 LINDA VISTA AVE	2014, 2010, 2006, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1037 LINDA VISTA AVE	2014, 2010, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1043 STIERLIN RD	2014, 2010, 2006, 2000, 1996, 1991, 1985, 1980, 1978, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1045 LINDA VISTA AVE	2014, 2010, 2006, 2000, 1996, 1985, 1980, 1978, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1049 LINDA VISTA AVE	2014, 2010, 2006, 2000, 1996, 1991, 1985, 1980, 1978, 1974, 1970, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1066 LINDA VISTA AVE	2014, 2010, 2006, 2001, 2000, 1996, 1986, 1985, 1982, 1980, 1978, 1974, 1970, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
1066 LINDA VISTA DR	2014, 2010, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1070 LINDA VISTA AVE	2014, 2010, 2006, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1080 LINDA VISTA AVE	2014, 2010, 2006, 2000, 1996, 1978, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1080 LINDA VISTA WAY	2014, 2010, 2006, 2001, 2000, 1996, 1991, 1985, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1086 LINDA VISTA DR	2014, 2010, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1090 LINDA VISTA AVE	2014, 2010, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1090 TERRA BELLA AVE	2014, 2010, 2006, 2000, 1996, 1991, 1985, 1980, 1978, 1974, 1970, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1093 STIERLIN RD	2014, 2010, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1096 LINDA VISTA DR	2014, 2010, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1101 STIERLIN RD	2014, 2010, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1102 TERRA BELLA DR	2014, 2010, 2006, 2001, 2000, 1996, 1991, 1986, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1110 TERRA BELLA AVE	2014, 2010, 2006, 2000, 1996, 1985, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1110 Terra Bella Ave	2010, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1110 Terra Bella Ave	2010, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1145 Terra Bella Ave	2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1145 Terra Bella Ave	2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1145 TERRA BELLA AVE	2014, 2010, 2006, 2000, 1996, 1985, 1982, 1980, 1978, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
1155 Terra Bella Ave	2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1155 Terra Bella Ave	2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1155 TERRA BELLA AVE	2014, 2010, 2006, 2001, 2000, 1996, 1985, 1980, 1978, 1975, 1974, 1970, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1155B TERRA BELLA AVE	2014, 2010, 2006, 2001, 2000, 1996, 1991, 1986, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1160 S SHORELINE BLVD	2014, 2010, 2006, 2001, 2000, 1996, 1991, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1160 TERRA BELLA AVE	2014, 2010, 2006, 2000, 1996, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1175 Terra Bella Ave	2010, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1175 Terra Bella Ave	2010, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1175 TERRA BELLA AVE	2014, 2010, 2006, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1185 TERRA BELLA AVE	2014, 2010, 2006, 2000, 1996, 1985, 1980, 1978, 1974, 1970, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1185 Terra Bella Ave	2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1185 Terra Bella Ave	2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1212 Terra Bella Ave	2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1212 TERRA BELLA AVE	2014, 2010, 2006, 2000, 1996, 1985, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1212 Terra Bella Ave	2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1215 Terra Bella Ave	2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1215 TERRA BELLA AVE	2014, 2010, 2006, 2000, 1996, 1991, 1985, 1982, 1980, 1978, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
1215 Terra Bella Ave	2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1219 TERRA BELLA DR	2014, 2010, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1220 TERRA BELLA AVE	2014, 2010, 2006, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1245 TERRA BELLA AVE	2014, 2010, 2006, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1245 Terra Bella Ave	2014, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1245 Terra Bella Ave	2014, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1255 Terra Bella Ave	2014, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1255 Terra Bella Ave	2014, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
850 N Shoreline Blvd	2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
850 N Shoreline Blvd	2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
883 N Shoreline Blvd	2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
883 N Shoreline Blvd	2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
900 N Shoreline Blvd	2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
900 N Shoreline Blvd	2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
917 STIERLIN RD	2014, 2010, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1970, 1966, 1965, 1964, 1963, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
943 SHORELINE BLVD N	2014, 2010, 2006, 2000, 1996, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
943 STIERLIN RD	2014, 2010, 2006, 2000, 1996, 1991, 1985, 1980, 1978, 1974, 1970, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
947 SHORELINE BLVD N	2014, 2010, 2006, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
949 STIERLIN RD	2014, 2010, 2006, 2001, 2000, 1996, 1991, 1985, 1980, 1978, 1975, 1974, 1970, 1966, 1965, 1964, 1963, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
967 N Shoreline Blvd	2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
967 N Shoreline Blvd	2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
967 SHORELINE BLVD N	2014, 2010, 2006, 2000, 1996, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
967 STIERLIN RD	2014, 2010, 2006, 2001, 2000, 1996, 1991, 1985, 1982, 1980, 1978, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
973 LINDA VISTA AVE	2014, 2010, 2006, 2000, 1996, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
975 N Shoreline Blvd	2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
975 SHORELINE BLVD N	2014, 2010, 2006, 2000, 1996, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
975 STIERLIN RD	2014, 2010, 2006, 2000, 1996, 1991, 1985, 1980, 1978, 1974, 1970, 1966, 1965, 1964, 1963, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
976 LINDA VISTA AVE	2014, 2010, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
980 LINDA VISTA AVE	2014, 2010, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1970, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
983 LINDA VISTA AVE	2014, 2010, 2006, 2000, 1996, 1991, 1985, 1980, 1978, 1975, 1974, 1970, 1966, 1965, 1964, 1963, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
984 LINDA VISTA AVE	2014, 2010, 2006, 2001, 2000, 1996, 1991, 1986, 1982, 1978, 1974, 1970, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
986 LINDA VISTA AVE	2014, 2010, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
986 LINDA VISTA DR	2014, 2010, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
987 LINDA VISTA AVE	2014, 2010, 2006, 2000, 1996, 1986, 1985, 1982, 1980, 1978, 1974, 1970, 1966, 1965, 1964, 1963, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
1001-1091 N Shoreline Blvd & 1062 Linda Vista Ave	2006, 2000, 1996, 1985, 1980, 1978, 1974, 1970, 1966, 1965, 1964, 1963, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922

1001-1091 Stierlin Rd & 1130-1170 Terra Bella Ave

1001-1091 N Shoreline Blvd & 1062 Linda Vista Ave

Mountain View, CA 94043

Inquiry Number: 5591584.3

March 18, 2019

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

03/18/19

Site Name:

1001-1091 Stierlin Rd & 1130-1
1001-1091 N Shoreline Blvd &
Mountain View, CA 94043
EDR Inquiry # 5591584.3

Client Name:

EKI Environment & Water, Inc.
577 Airport Blvd Suite 500
Burlingame, CA 94010
Contact: James Yoon

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Certified Sanborn Results:

Certification # B93F-4E92-976B

PO # B80116.00

Project 1001 N Shoreline Blvd

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 #: B93F-4E92-976B

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- ☑ University Publications of America
- ☑ EDR Private Collection

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1001-1091 Stierlin Rd & 1130-1170 Terra Bella Ave

1001-1091 N Shoreline Blvd & 1062 Linda Vista Ave

Mountain View, CA 94043

Inquiry Number: 5591584.4

March 18, 2019

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

03/18/19

Site Name:

1001-1091 Stierlin Rd & 1130-
1001-1091 N Shoreline Blvd &
Mountain View, CA 94043
EDR Inquiry # 5591584.4

Client Name:

EKI Environment & Water, Inc.
577 Airport Blvd Suite 500
Burlingame, CA 94010
Contact: James Yoon

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Search Results:

P.O.# B80116.00
Project: 1001 N Shoreline Blvd

Coordinates:

Latitude:	37.40925 37° 24' 33" North
Longitude:	-122.07731 -122° 4' 38" West
UTM Zone:	Zone 10 North
UTM X Meters:	581656.17
UTM Y Meters:	4140672.82
Elevation:	37.00' above sea level

Maps Provided:

2012	1948
1997	1947
1995	1943
1981	1902
1973	1899
1968	1897
1961	
1953	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



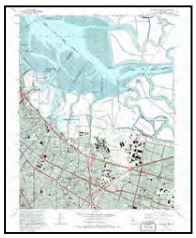
Mountain View
2012
7.5-minute, 24000

1997 Source Sheets



Mountain View
1997
7.5-minute, 24000
Aerial Photo Revised 1997

1995 Source Sheets



Mountain View
1995
7.5-minute, 24000
Aerial Photo Revised 1991

1981 Source Sheets



Mountain View
1981
7.5-minute, 24000
Aerial Photo Revised 1979

Topo Sheet Key

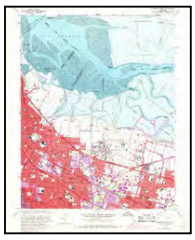
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1973 Source Sheets



Mountain View
1973
7.5-minute, 24000
Aerial Photo Revised 1973

1968 Source Sheets



Mountain View
1968
7.5-minute, 24000
Aerial Photo Revised 1968

1961 Source Sheets



Mountain View
1961
7.5-minute, 24000
Aerial Photo Revised 1960

1953 Source Sheets

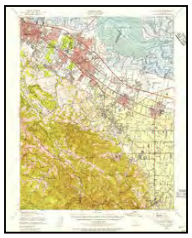


Mountain View
1953
7.5-minute, 24000
Aerial Photo Revised 1948

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1948 Source Sheets



Palo Alto
1948
15-minute, 62500
Aerial Photo Revised 1948

1947 Source Sheets



PALO ALTO
1947
15-minute, 50000

1943 Source Sheets



Palo Alto
1943
15-minute, 62500
Aerial Photo Revised 1940

1902 Source Sheets

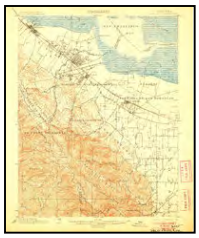


Santa Cruz
1902
30-minute, 125000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1899 Source Sheets



Palo Alto
1899
15-minute, 62500

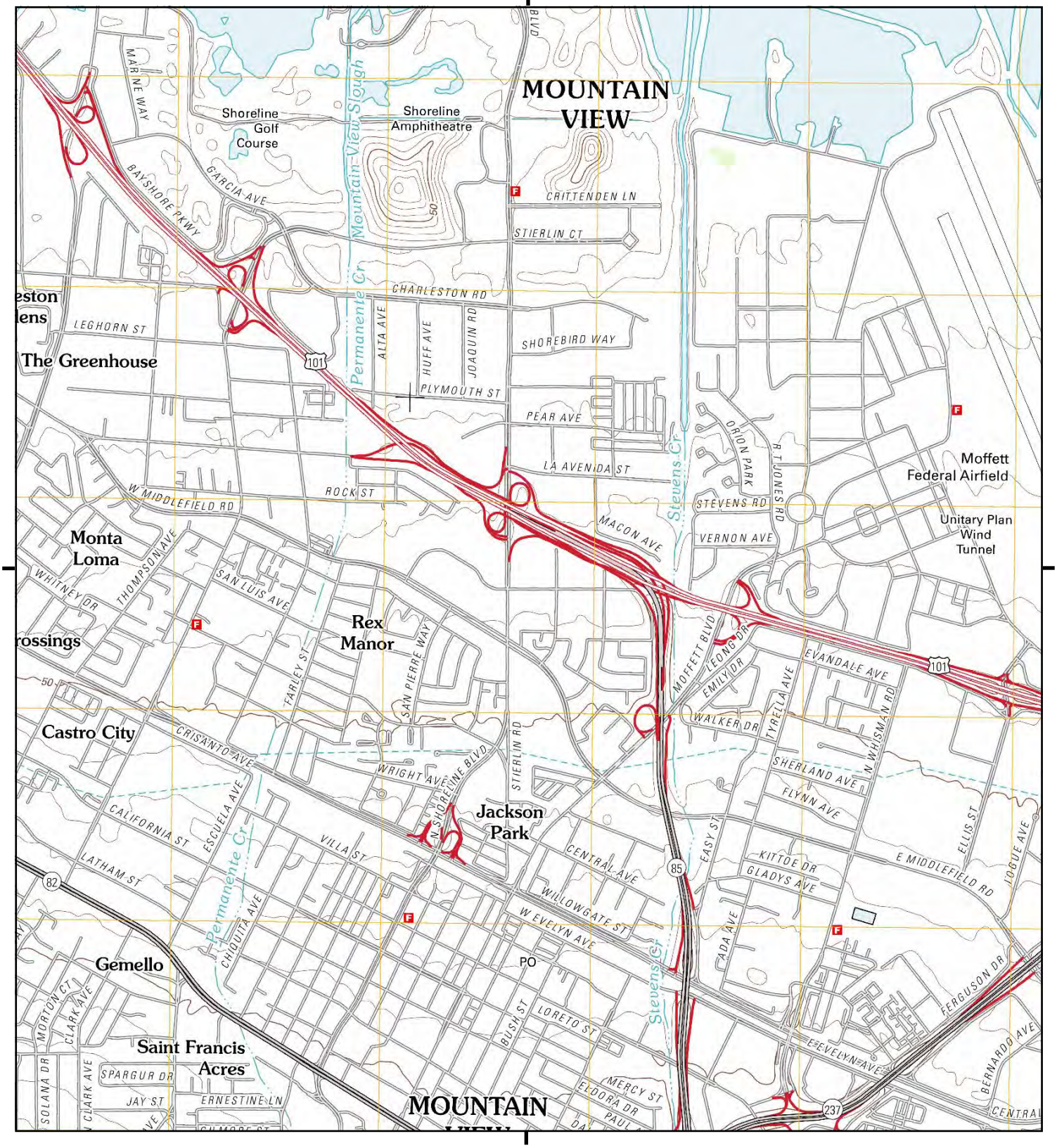
1897 Source Sheets



Palo Alto
1897
15-minute, 62500

Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

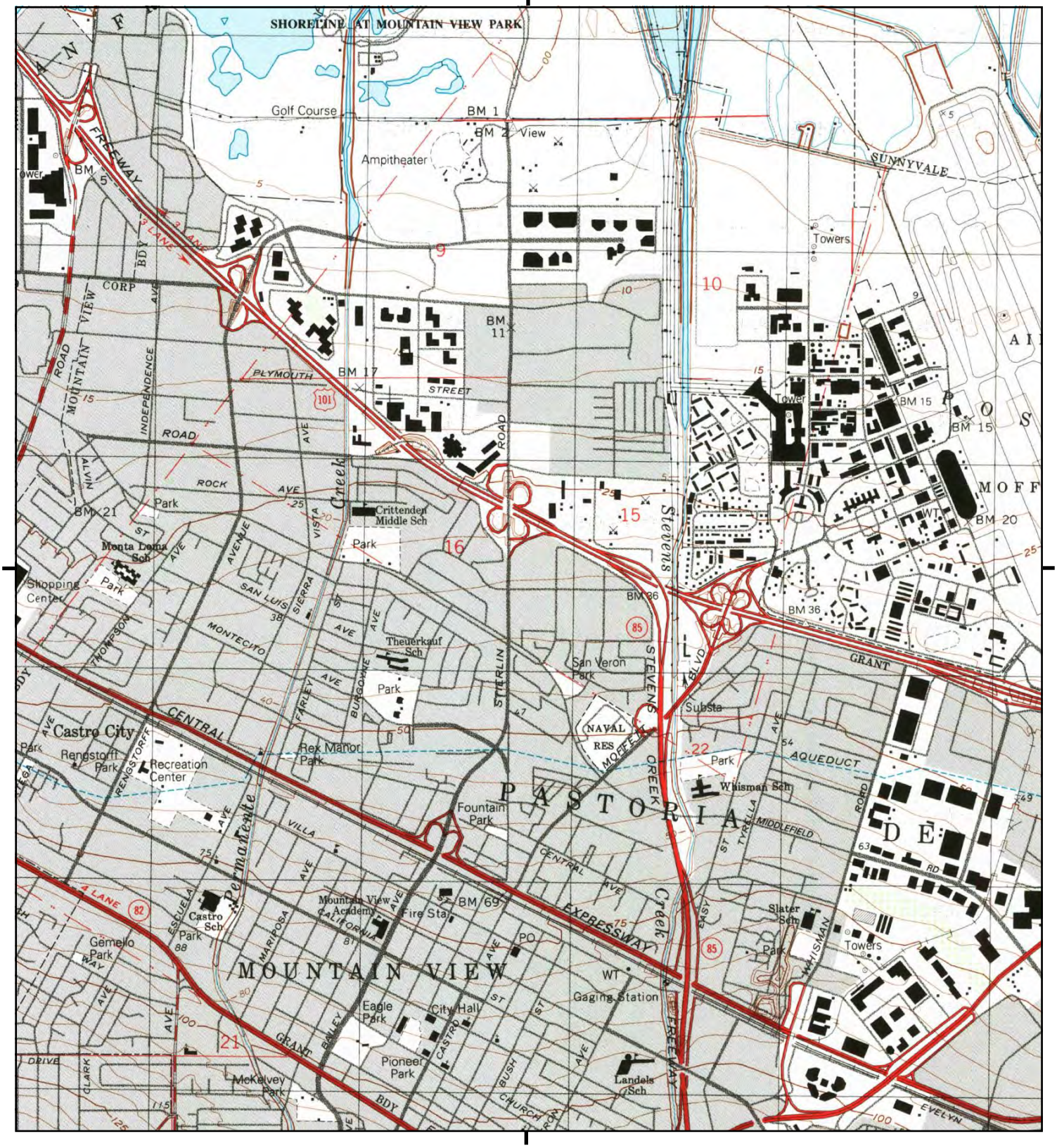
TP, Mountain View, 2012, 7.5-minute

SITE NAME: 1001-1091 Stierlin Rd & 1130-1170 Terra
ADDRESS: 1001-1091 N Shoreline Blvd & 1062 Linda
Mountain View, CA 94043
CLIENT: EKI Environment & Water, Inc.

N

Historical Topo Map

1997



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

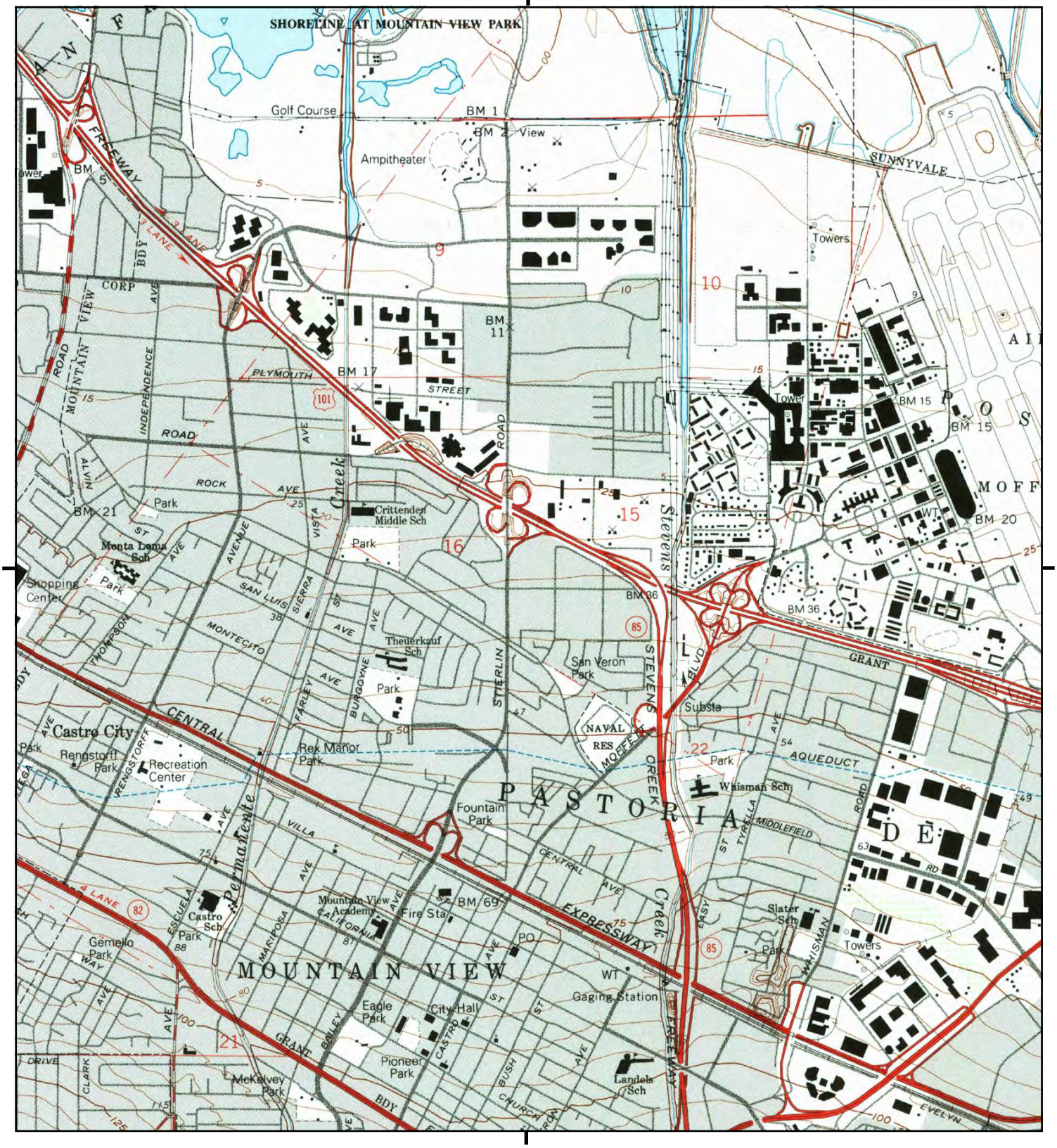
TP, Mountain View, 1997, 7.5-minute

SITE NAME: 1001-1091 Stierlin Rd & 1130-1170 Terra
ADDRESS: 1001-1091 N Shoreline Blvd & 1062 Linda
Mountain View, CA 94043
CLIENT: EKI Environment & Water, Inc.

N

Historical Topo Map

1995



This report includes information from the following map sheet(s).

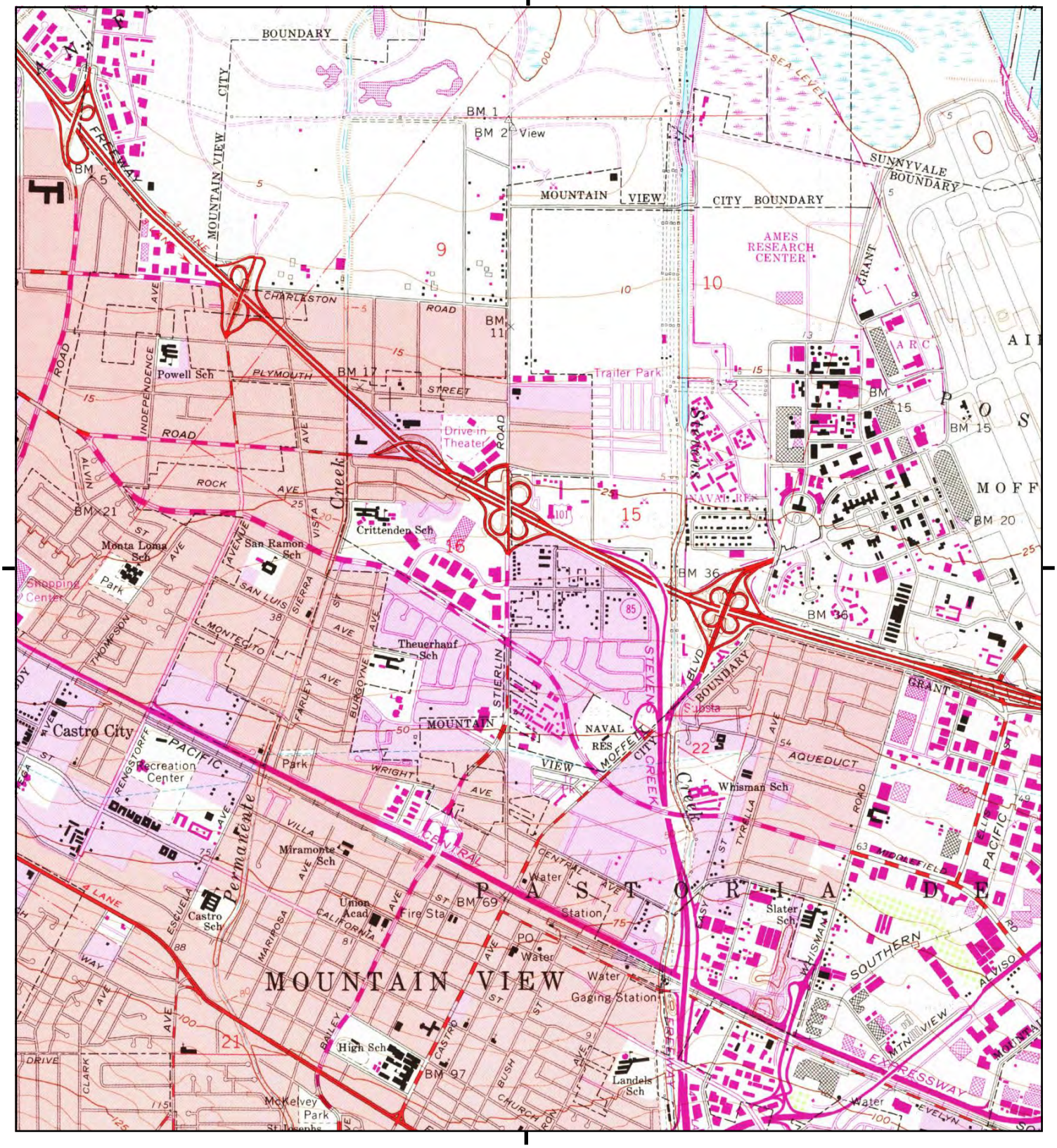
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Mountain View, 1995, 7.5-minute

SITE NAME: 1001-1091 Stierlin Rd & 1130-1170 Terra
ADDRESS: 1001-1091 N Shoreline Blvd & 1062 Linda
Mountain View, CA 94043
CLIENT: EKI Environment & Water, Inc.

N



This report includes information from the following map sheet(s).

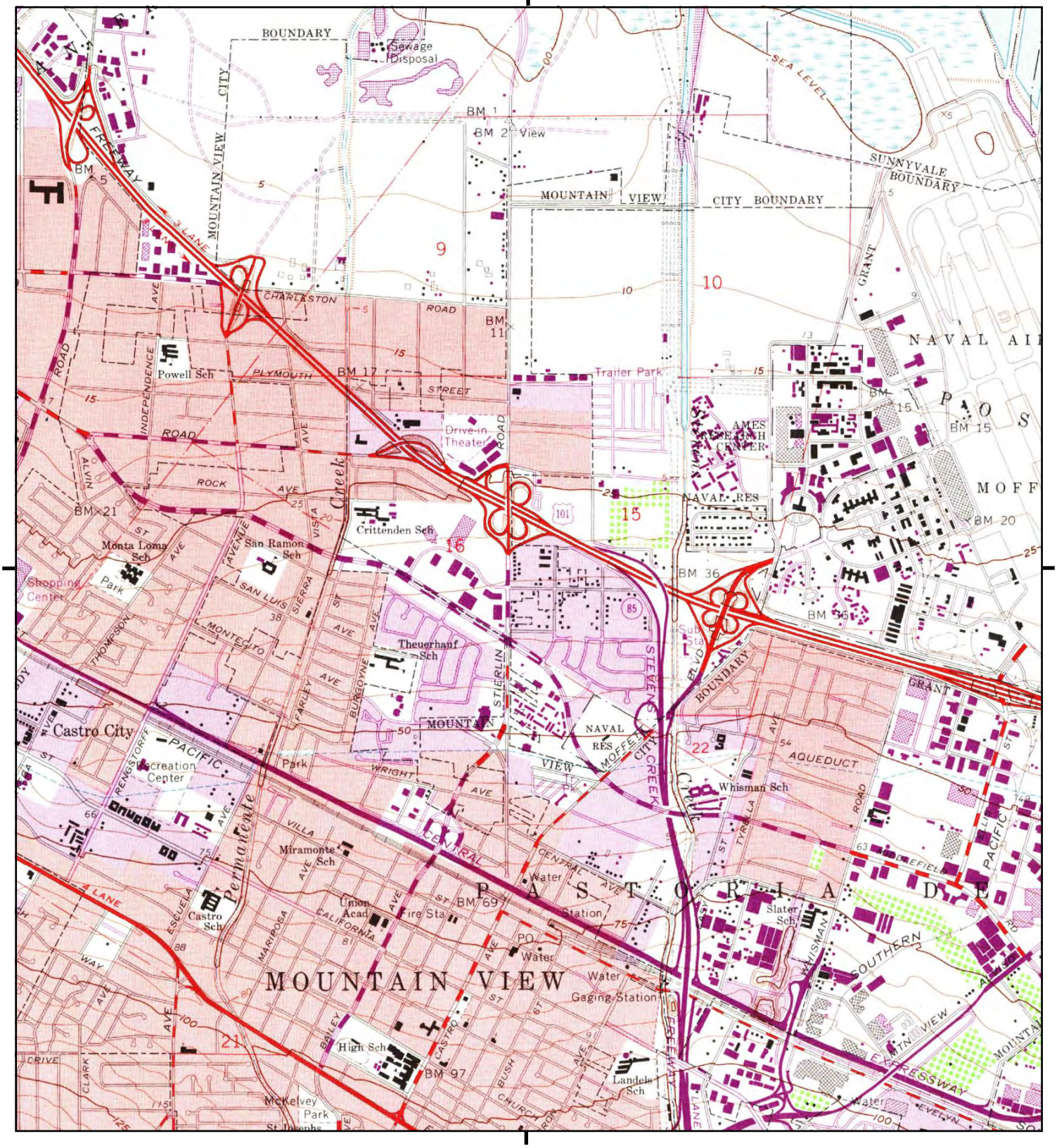
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Mountain View, 1981, 7.5-minute

SITE NAME: 1001-1091 Stierlin Rd & 1130-1170 Terra
ADDRESS: 1001-1091 N Shoreline Blvd & 1062 Linda
Mountain View, CA 94043
CLIENT: EKI Environment & Water, Inc.

N



This report includes information from the following map sheet(s).

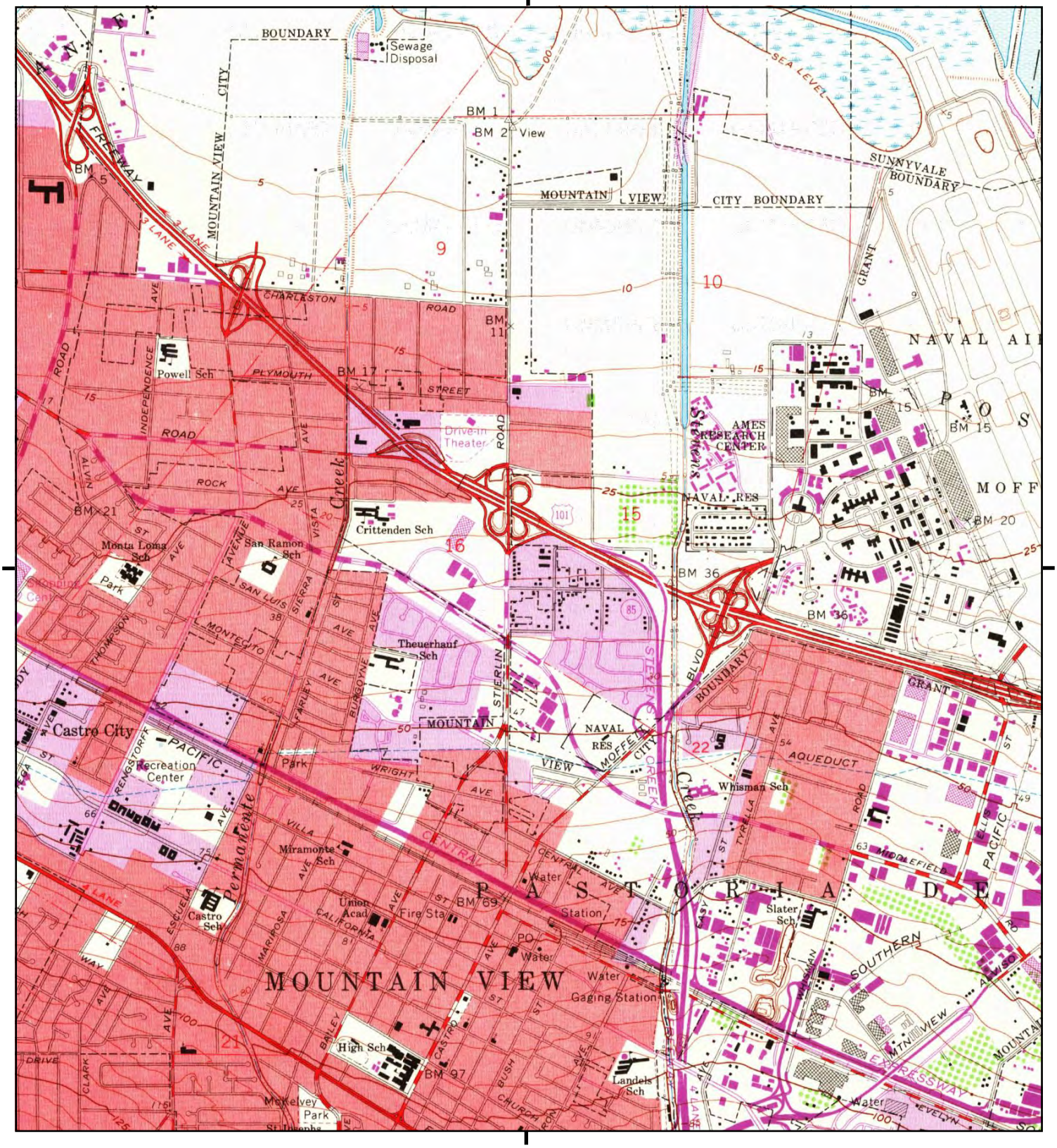
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Mountain View, 1973, 7.5-minute

SITE NAME: 1001-1091 Stierlin Rd & 1130-1170 Terra
ADDRESS: 1001-1091 N Shoreline Blvd & 1062 Linda
Mountain View, CA 94043
CLIENT: EKI Environment & Water, Inc.

N



This report includes information from the following map sheet(s).

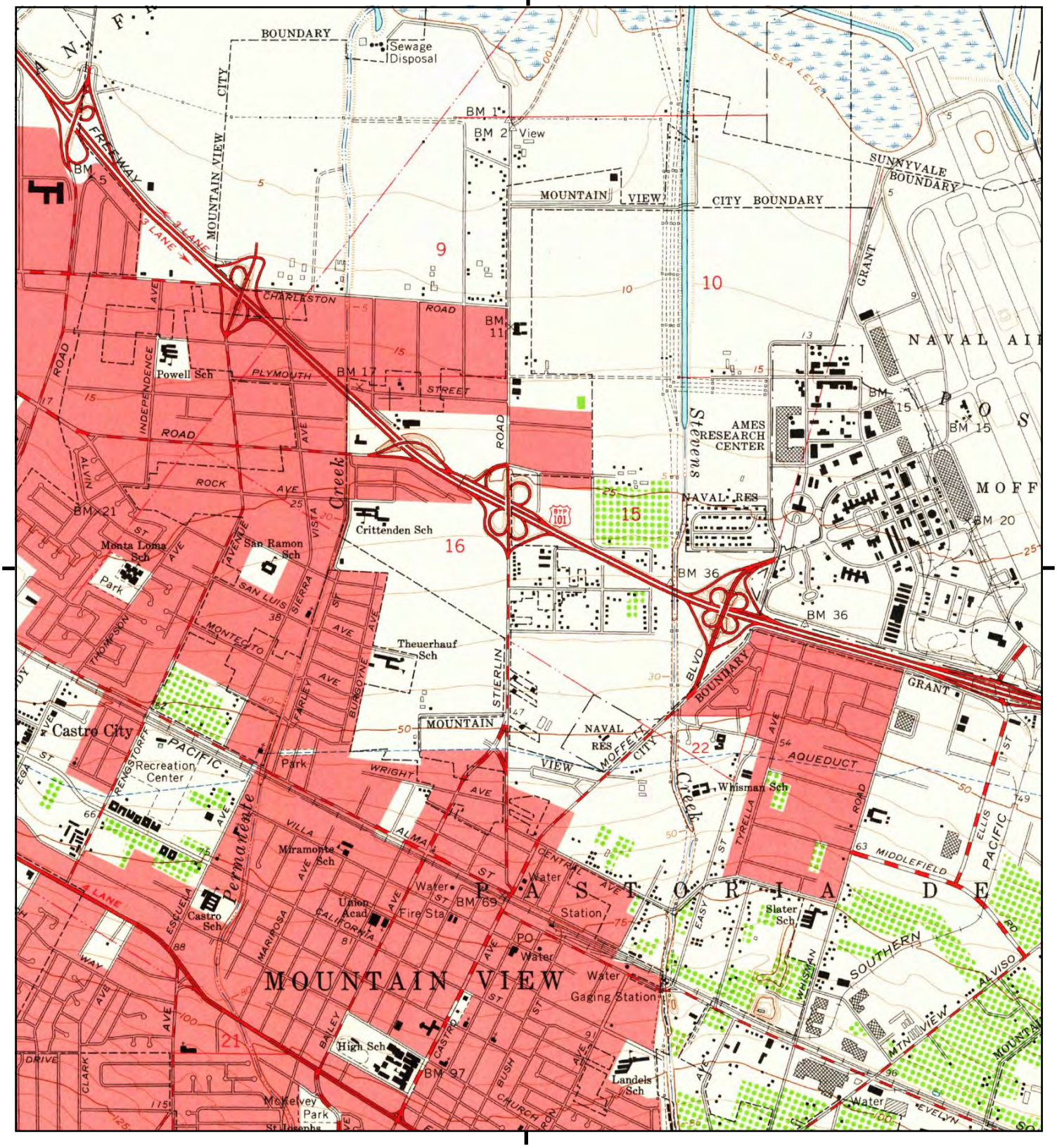
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Mountain View, 1968, 7.5-minute

SITE NAME: 1001-1091 Stierlin Rd & 1130-1170 Terra
ADDRESS: 1001-1091 N Shoreline Blvd & 1062 Linda
Mountain View, CA 94043
CLIENT: EKI Environment & Water, Inc.

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

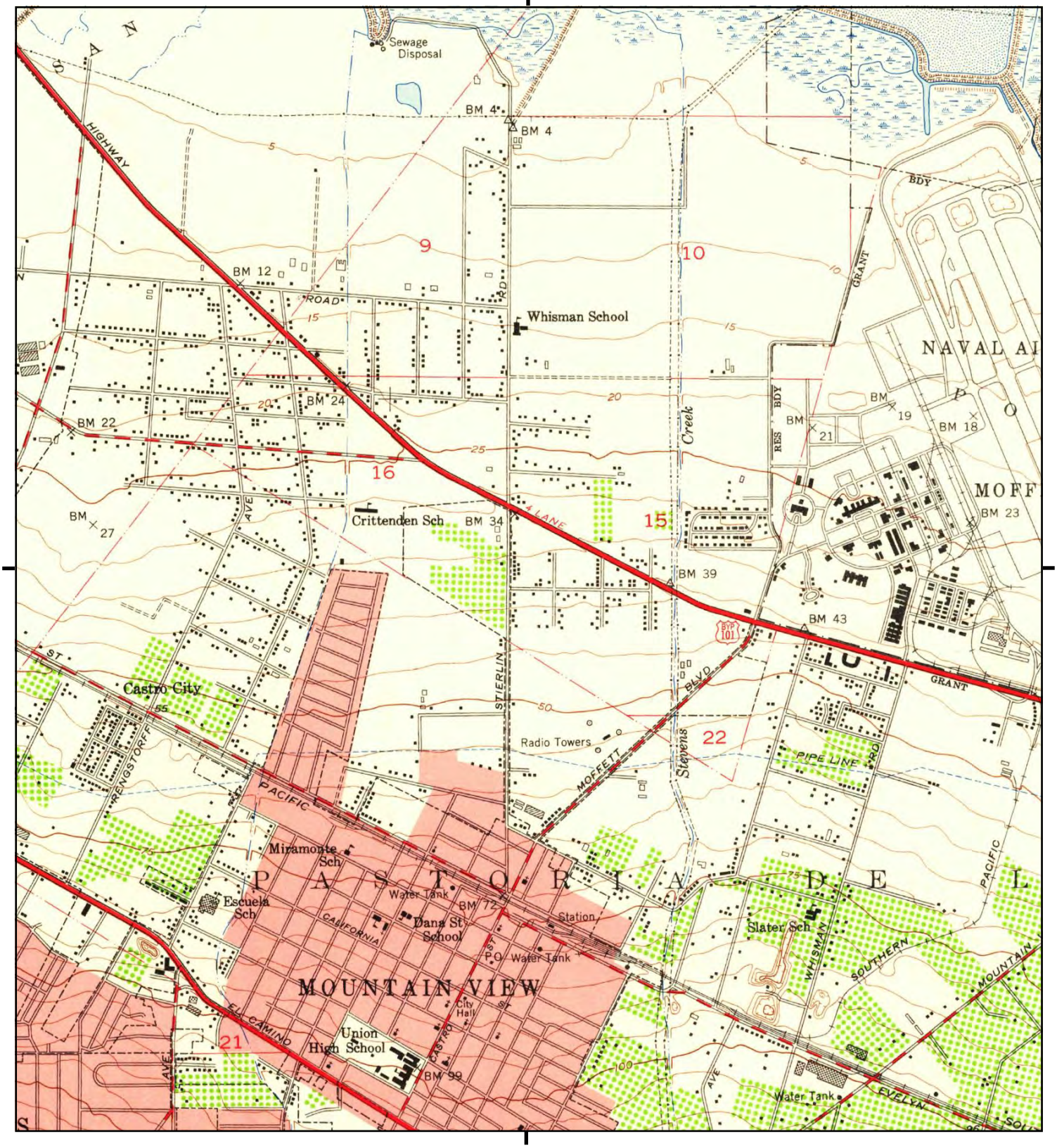
TP, Mountain View, 1961, 7.5-minute

SITE NAME: 1001-1091 Stierlin Rd & 1130-1170 Terra
ADDRESS: 1001-1091 N Shoreline Blvd & 1062 Linda
Mountain View, CA 94043
CLIENT: EKI Environment & Water, Inc.

N

Historical Topo Map

1953



This report includes information from the following map sheet(s).

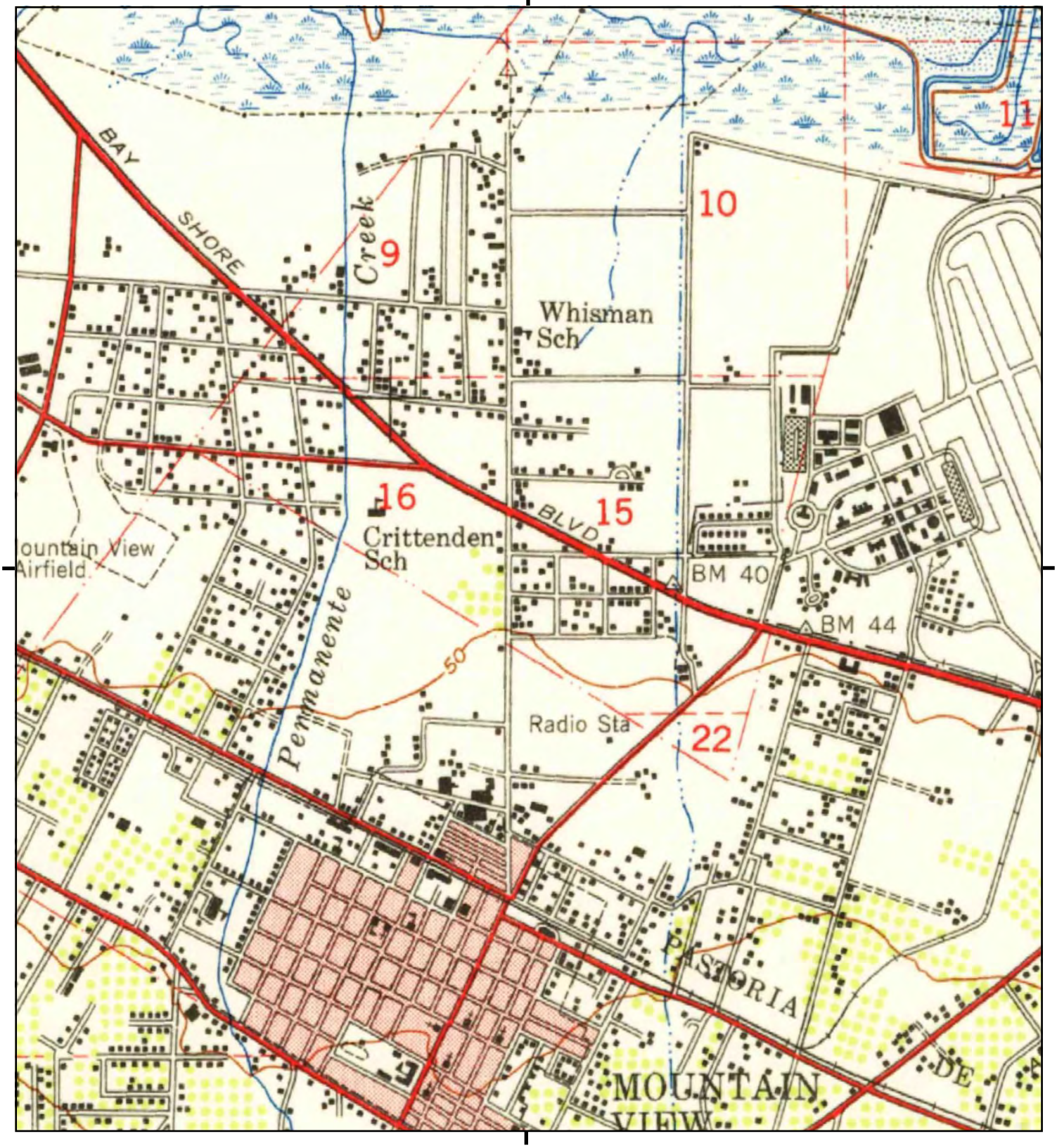
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Mountain View, 1953, 7.5-minute

SITE NAME: 1001-1091 Stierlin Rd & 1130-1170 Terra
ADDRESS: 1001-1091 N Shoreline Blvd & 1062 Linda
Mountain View, CA 94043
CLIENT: EKI Environment & Water, Inc.

N



This report includes information from the following map sheet(s).

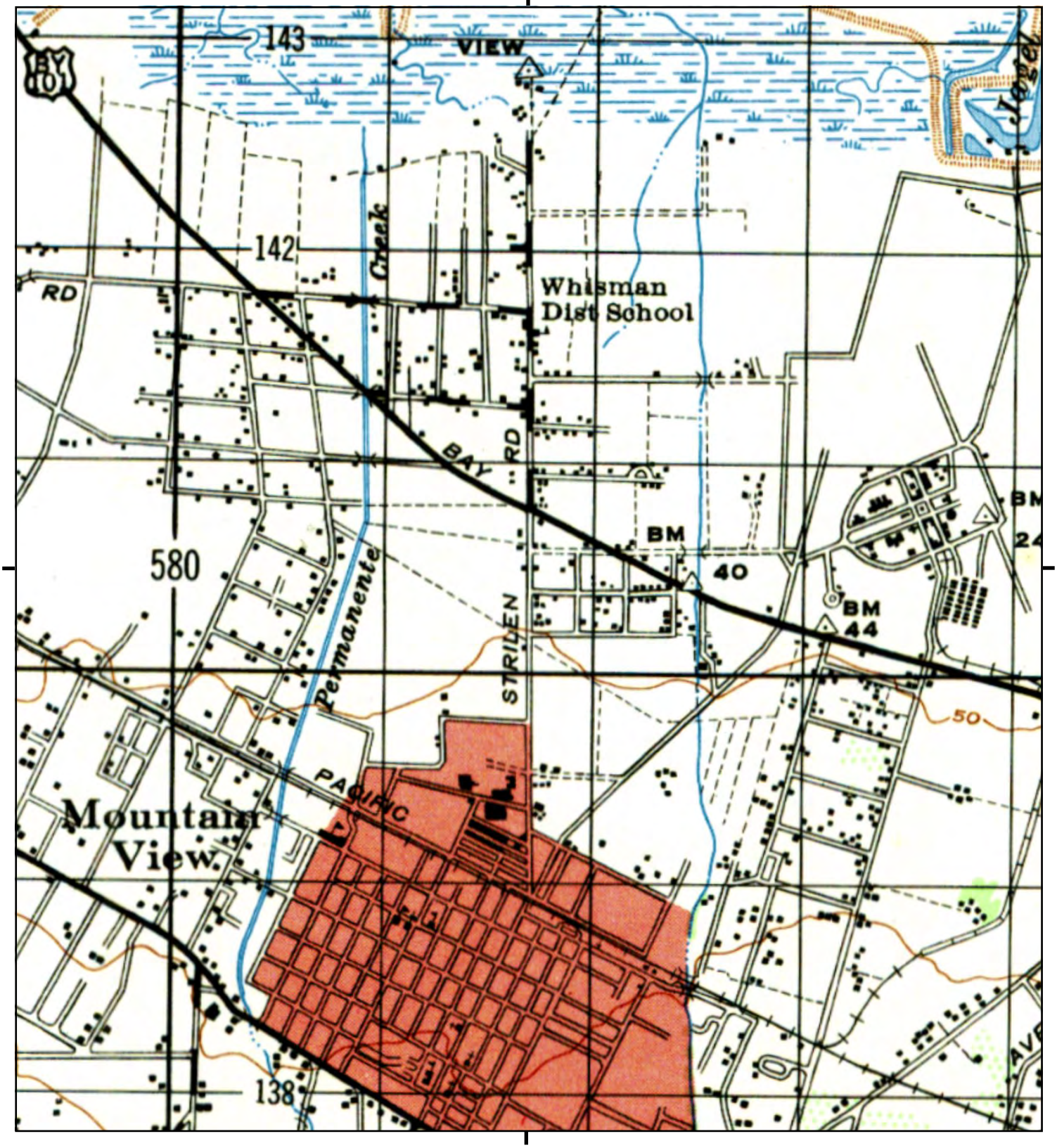
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Palo Alto, 1948, 15-minute

SITE NAME: 1001-1091 Stierlin Rd & 1130-1170 Terra
ADDRESS: 1001-1091 N Shoreline Blvd & 1062 Linda
Mountain View, CA 94043
CLIENT: EKI Environment & Water, Inc.

N



This report includes information from the following map sheet(s).

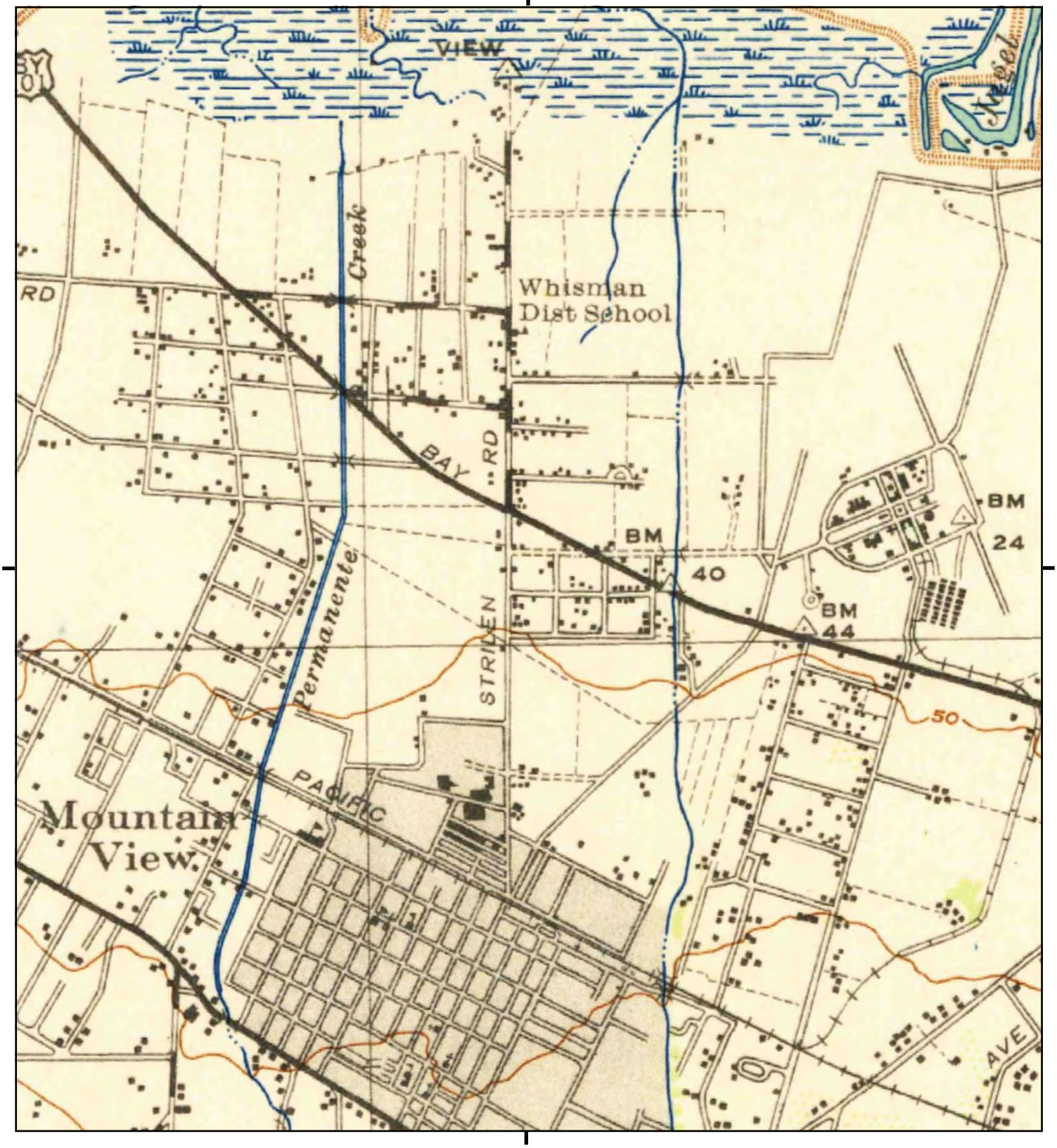
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, PALO ALTO, 1947, 15-minute

SITE NAME: 1001-1091 Stierlin Rd & 1130-1170 Terra
ADDRESS: 1001-1091 N Shoreline Blvd & 1062 Linda
Mountain View, CA 94043
CLIENT: EKI Environment & Water, Inc.

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, Palo Alto, 1943, 15-minute

SITE NAME: 1001-1091 Stierlin Rd & 1130-1170 Terra
ADDRESS: 1001-1091 N Shoreline Blvd & 1062 Linda
Mountain View, CA 94043
CLIENT: EKI Environment & Water, Inc.

N



This report includes information from the following map sheet(s).

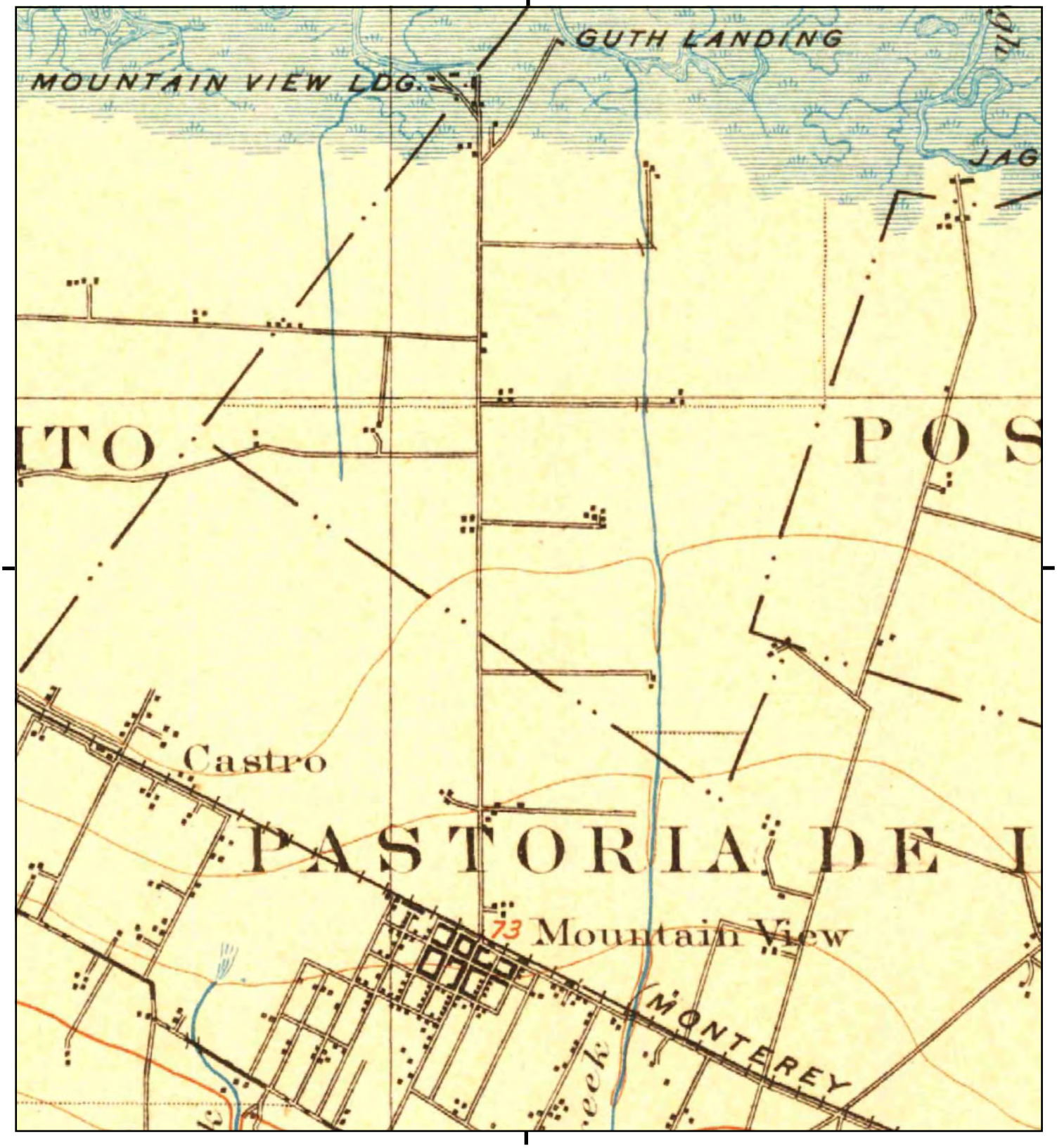
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Santa Cruz, 1902, 30-minute

SITE NAME: 1001-1091 Stierlin Rd & 1130-1170 Terra
ADDRESS: 1001-1091 N Shoreline Blvd & 1062 Linda
Mountain View, CA 94043
CLIENT: EKI Environment & Water, Inc.

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, Palo Alto, 1899, 15-minute

SITE NAME: 1001-1091 Stierlin Rd & 1130-1170 Terra
ADDRESS: 1001-1091 N Shoreline Blvd & 1062 Linda
Mountain View, CA 94043
CLIENT: EKI Environment & Water, Inc.

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, Palo Alto, 1897, 15-minute

SITE NAME: 1001-1091 Stierlin Rd & 1130-1170 Terra
ADDRESS: 1001-1091 N Shoreline Blvd & 1062 Linda
Mountain View, CA 94043
CLIENT: EKI Environment & Water, Inc.

N

1001-1091 Sterlin Rd & 1130-1170 Terra Bella Ave
1001-1091 N Shoreline Blvd & 1062 Linda Vista Ave
Mountain View, CA 94043

Inquiry Number: 5591584.6
March 15, 2019

The EDR Property Tax Map Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

EDR Property Tax Map Report

Environmental Data Resources, Inc.'s EDR Property Tax Map Report is designed to assist environmental professionals in evaluating potential environmental conditions on a target property by understanding property boundaries and other characteristics. The report includes a search of available property tax maps, which include information on boundaries for the target property and neighboring properties, addresses, parcel identification numbers, as well as other data typically used in property location and identification.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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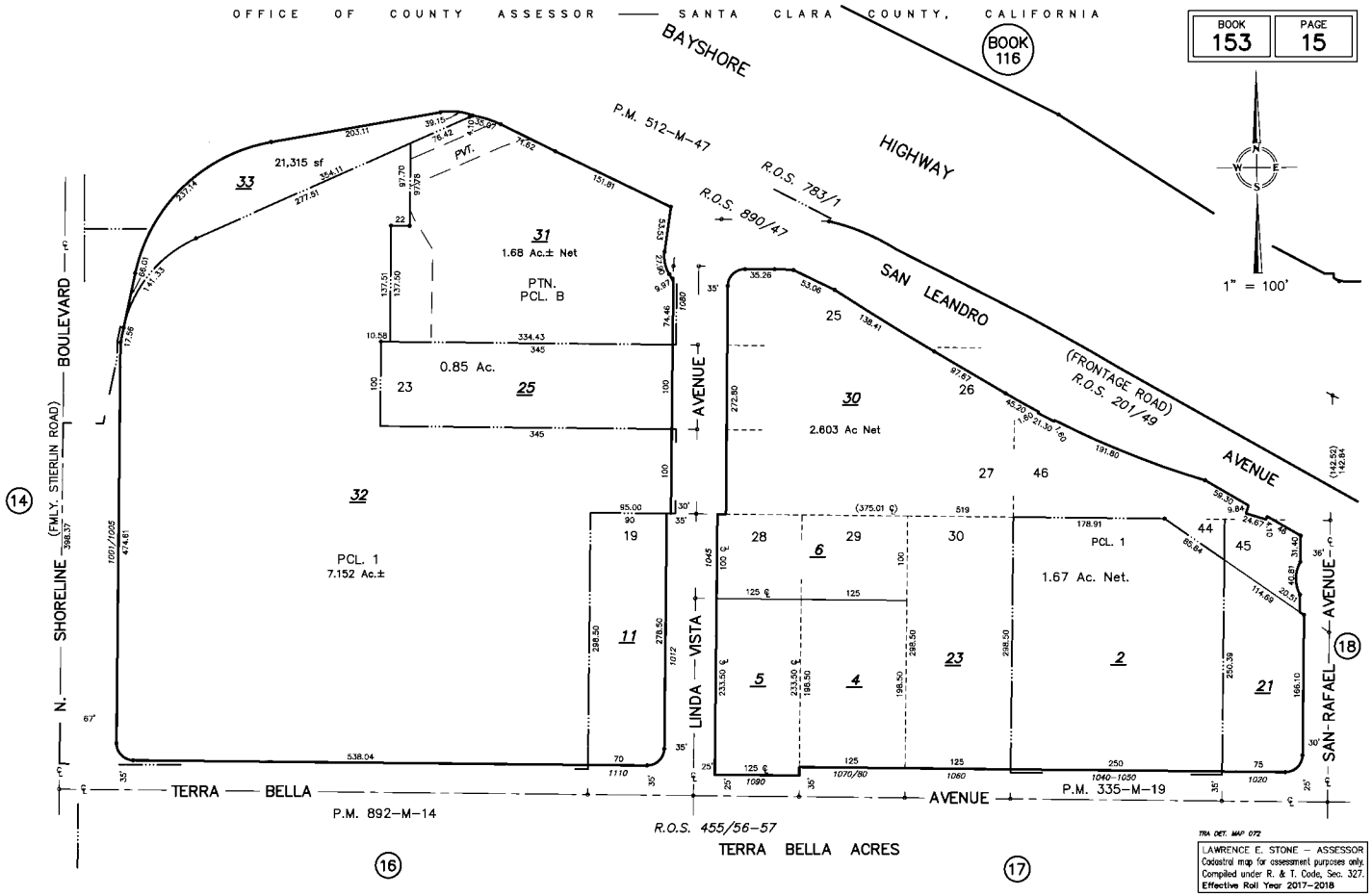
OFFICE OF COUNTY ASSESSOR — SANTA CLARA COUNTY, CALIFORNIA
BOOK 153
PAGE 15
BOOK 116
BAYSHORE HIGHWAY
P.M. 512-M-47
R.O.S. 783/1
R.O.S. 890/47
1" = 100'
SAN LEANDRO AVENUE
(FRONTAGE ROAD)
R.O.S. 201/49
N. SHORELINE BOULEVARD
(FMLY. STIERLIN ROAD)
LINDA VISTA AVENUE
SAN RAFAEL AVENUE
TERRA BELLA AVENUE
P.M. 892-M-14
P.M. 335-M-19
R.O.S. 455/56-57
TERRA BELLA ACRES
21,315 sf
PCL. 1
7.152 Ac.±
PTN. PCL. B
0.85 Ac.
1.68 Ac.± Net
2.603 Ac Net
PCL. 1
1.67 Ac. Net.
(14)
(16)
(17)
(18)
LAWRENCE E. STONE – ASSESSOR
Cadastral map for assessment purposes only.
Compiled under R. & T. Code, Sec. 327.
Effective Roll Year 2017-2018

1001-1091 Sterlin Rd & 1130-1170 Terra Bella Ave
1001-1091 N Shoreline Blvd & 1062 Linda Vista Ave
Mountain View, CA 94043

Inquiry Number: 5591584.8
March 15, 2019

EDR Building Permit Report

Target Property and Adjoining Properties

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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Executive Summary

Findings

Glossary

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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EDR BUILDING PERMIT REPORT

About This Report

The EDR Building Permit Report provides a practical and efficient method to search building department records for indications of environmental conditions. Generated via a search of municipal building permit records gathered from more than 1,600 cities nationwide, this report will assist you in meeting the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

Building permit data can be used to identify current and/or former operations and structures/features of environmental concern. The data can provide information on a target property and adjoining properties such as the presence of underground storage tanks, pump islands, sumps, drywells, etc., as well as information regarding water, sewer, natural gas, electrical connection dates, and current/former septic tanks.

ASTM and EPA Requirements

ASTM E 1527-13 lists building department records as a "standard historical source," as detailed in § 8.3.4.7: "Building Department Records - The term building department records means those records of the local government in which the property is located indicating permission of the local government to construct, alter, or demolish improvements on the property." ASTM also states that "Uses in the area surrounding the property shall be identified in the report, but this task is required only to the extent that this information is revealed in the course of researching the property itself."

EPA's Standards and Practices for All Appropriate Inquires (AAI) states: "§312.24: Reviews of historical sources of information. (a) Historical documents and records must be reviewed for the purposes of achieving the objectives and performance factors of §312.20(e) and (f). Historical documents and records may include, but are not limited to, aerial photographs, fire insurance maps, building department records, chain of title documents, and land use records."

Methodology

EDR has developed the EDR Building Permit Report through our partnership with BuildFax, the nation's largest repository of building department records. BuildFax collects, updates, and manages building department records from local municipal governments. The database now includes 30 million permits, on more than 10 million properties across 1,600 cities in the United States.

The EDR Building Permit Report comprises local municipal building permit records, gathered directly from local jurisdictions, including both target property and adjoining properties. Years of coverage vary by municipality. Data reported includes (where available): date of permit, permit type, permit number, status, valuation, contractor company, contractor name, and description.

Incoming permit data is checked at seven stages in a regimented quality control process, from initial data source interview, to data preparation, through final auditing. To ensure the building department is accurate, each of the seven quality control stages contains, on average, 15 additional quality checks, resulting in a process of approximately 105 quality control "touch points."

For more information about the EDR Building Permit Report, please contact your EDR Account Executive at (800) 352-0050.

EDR® Environmental Data Resources Inc

BUILD FAX PROPERTY HISTORY

EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

A search of building department records was conducted by Environmental Data Resources, Inc (EDR) on behalf of EKI Environment & Water, Inc. on Mar 15, 2019.

TARGET PROPERTY

1001-1091 N Shoreline Blvd & 1062 Linda Vista Ave
Mountain View, CA 94043

SEARCH METHODS

EDR searches available lists for both the Target Property and Surrounding Properties.

RESEARCH SUMMARY

Building permits identified: **YES**

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Mountain View

Year	*Source*	*TP*	*Adjoining*
2018	City of Mountain View, Building Division		X
	City of Mountain View, Building Division	X	
2017	City of Mountain View, Building Division		X
	City of Mountain View, Building Division	X	
2016	City of Mountain View, Building Division		X
	City of Mountain View, Building Division	X	
2015	City of Mountain View, Building Division		X
	City of Mountain View, Building Division	X	
2014	City of Mountain View, Building Division		X
2013	City of Mountain View, Building Division		X
	City of Mountain View, Building Division	X	
2012	City of Mountain View, Building Division		X
	City of Mountain View, Building Division	X	
2011	City of Mountain View, Building Division		X
	City of Mountain View, Building Division	X	
2010	City of Mountain View, Building Division	X	
2009	City of Mountain View, Building Division		X
2008	City of Mountain View, Building Division		X
2007	City of Mountain View, Building Division		X
2006	City of Mountain View, Building Division		X
	City of Mountain View, Building Division	X	
2005	City of Mountain View, Building Division		X
	City of Mountain View, Building Division	X	
2004	City of Mountain View, Building Division	X	
2003	City of Mountain View, Building Division		X
	City of Mountain View, Building Division	X	
2002	City of Mountain View, Building Division		X
2001	City of Mountain View, Building Division		X

EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

Year	***Source***	***TP***	***Adjoining***
2000	City of Mountain View, Building Division		X
1999	City of Mountain View, Building Division		
1998	City of Mountain View, Building Division		
1997	City of Mountain View, Building Division		
1996	City of Mountain View, Building Division		
1995	City of Mountain View, Building Division		
1994	City of Mountain View, Building Division		
1993	City of Mountain View, Building Division		
1992	City of Mountain View, Building Division		
1991	City of Mountain View, Building Division		
1990	City of Mountain View, Building Division		

Name: JurisdictionName
Years: Years
Source: Source
Phone: Phone

BUILDING DEPARTMENT RECORDS SEARCHED

Name: Mountain View
Years: 1990-2018
Source: City of Mountain View, Building Division, Mountain View, CA
Phone: (650) 903-6313

Name: Rialto
Years: 2000-2017
Source: City of Rialto, Building and Safety, RIALTO, CA
Phone: (909) 820-2505

Name: Santa Clara County Unincorporated Area
Years: 1960-2018
Source: Santa Clara County, Development Services Office, MOUNTAIN VIEW, CA
Phone: (408) 299-5700

TARGET PROPERTY FINDINGS

TARGET PROPERTY DETAIL

1001-1091 N Shoreline Blvd & 1062 Linda Vista Ave
Mountain View, CA 94043

1001 N SHORELINE BLVD

Date:	**10/11/2018**
Permit Type:	**FP CH**
Description:	**F.A T.I. VOLUNTARY MODIFICATIONS "GOOGLE"**
Permit Description:	**FIRE PROTECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2018-3260
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	RTS SYSTEMS & DESIGN

Date:	**3/27/2018**
Permit Type:	**FP CH**
Description:	**HOOD AND DUCT SYSTEM NEW INSTALLATION FOR NEW CAFETERIA "GOOGLE"**
Permit Description:	**FIRE PROTECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2018-0897
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	AAA FIRE PROTECTION SERVICES

TARGET PROPERTY FINDINGS

Date:	**3/7/2018**
Permit Type:	**FP CH**
Description:	**FLOORS #1-4: F/S T.I. NEW TENANT "GOOGLE"**
Permit Description:	**FIRE PROTECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2018-0386
Status:	
Valuation:	$358,980.00
Contractor Company:	
Contractor Name:	BFP FIRE PROTECTION INC

Date:	**2/27/2018**
Permit Type:	**FP CH**
Description:	**F/A T.I. NEW TENANT "GOOGLE"**
Permit Description:	**FIRE PROTECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2018-0375
Status:	
Valuation:	$175,700.00
Contractor Company:	
Contractor Name:	R.T.S. SYSTEMS & DESIGN

Date:	**2/5/2018**
Permit Type:	**BL EL ME PL CH PC**
Description:	**FLRS #1-4: COMM T.I. NEW TENANT, CAFETERIA, MICRO-KITCHEN, OFFICE, EXTERIOR RECREATION AREA, TRASH E**
Permit Description:	**BUILDING ELECTRICAL MECHANICAL PLUMBING PLAN CHECK ADDITIONAL PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2017-2198
Status:	
Valuation:	$21,000,000.00
Contractor Company:	
Contractor Name:	DOME CONSTRUCTION CORP

TARGET PROPERTY FINDINGS

Date:	**7/21/2017**
Permit Type:	**EL**
Description:	**METER RELEASE FOR INSTALLATION OF NEW PANEL**
Permit Description:	**ELECTRICAL**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2017-2450
Status:	
Valuation:	$500.00
Contractor Company:	
Contractor Name:	NOVO CONSTRUCTION

Date:	**6/2/2017**
Permit Type:	**EL CH**
Description:	**CONVERT OVERHEAD PG&E ELECTRICAL FEED TO UNDERGROUND**
Permit Description:	**ELECTRICAL PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2017-1932
Status:	
Valuation:	$88,000.00
Contractor Company:	
Contractor Name:	SPRIG ELECTRIC CO.

Date:	**5/2/2017**
Permit Type:	**EL FP CH**
Description:	**INSTALL EMERGENCY RESPONDER RADIO COVERAGE SYSTEM FOR NEW 4-STORY COMMERCIAL WARM SHELL BLDG**
Permit Description:	**ELECTRICAL FIRE PROTECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2017-0159
Status:	
Valuation:	$113,000.00
Contractor Company:	
Contractor Name:	RED CLOUD, INC.

TARGET PROPERTY FINDINGS

Date:	**3/29/2017**
Permit Type:	**CH SN**
Description:	**INSTALL (1) NON-ILLUMINTATED BLANK MONUMENT SIGN (SIGNAGE TO BE UNDER SEPARATE PERMIT)**
Permit Description:	**PLAN CHECK SN**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2017-0963
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	NOVO CONSTRUCTION INC

Date:	**8/30/2016**
Permit Type:	**FP CH**
Description:	**F/A SYSTEM NEW INSTALLATION FOR NEW 4-STORY COMMERCIAL WARM SHELL BLDG**
Permit Description:	**FIRE PROTECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2016-2968
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	PYRO - COMM SYSTEMS INC

Date:	**7/6/2016**
Permit Type:	**FP CH**
Description:	**F/S SYSTEM NEW INSTALLATION FOR NEW 4-STORY COMMERCIAL WARM SHELL BLDG**
Permit Description:	**FIRE PROTECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2016-2105
Status:	
Valuation:	$230,000.00
Contractor Company:	
Contractor Name:	BFP FIRE PROTECTION INC

TARGET PROPERTY FINDINGS

Date:	**6/7/2016**
Permit Type:	**FP CH**
Description:	**U/G F/L FOR NEW 4-STORY COMMERCIAL WARM SHELL BLDG**
Permit Description:	**FIRE PROTECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2016-2078
Status:	
Valuation:	$30,000.00
Contractor Company:	
Contractor Name:	BLACKWELL GENERAL ENG.

Date:	**5/17/2016**
Permit Type:	**BL EL ME PL CH PC**
Description:	**NEW 4-STORY COMMERCIAL WARM SHELL BLDG (111,443 SQ FT) (PREVIOUS A.K.A 1005 N. SHORELINE BLVD)**
Permit Description:	**BUILDING ELECTRICAL MECHANICAL PLUMBING PLAN CHECK ADDITIONAL PLAN CHECK**
Work Class:	NEW
Proposed Use:	
Permit Number:	2015-3022
Status:	
Valuation:	$23,000,000.00
Contractor Company:	
Contractor Name:	NOVO CONSTRUCTION

Date:	**2/4/2016**
Permit Type:	**GR CH**
Description:	**GRADING ONLY PERMIT (MASTER PLAN #2015-3022)**
Permit Description:	**GR PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2015-4005
Status:	
Valuation:	$478,000.00
Contractor Company:	
Contractor Name:	NOVO CONSTRUCTION

TARGET PROPERTY FINDINGS

1001-1091 N SHORELINE BLVD AND 1062 LINDA VISTA AVE

Date:	**10/11/2018**
Permit Type:	**FP CH**
Description:	**F.A T.I. VOLUNTARY MODIFICATIONS "GOOGLE"**
Permit Description:	**FIRE PROTECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2018-3260
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	RTS SYSTEMS & DESIGN

Date:	**3/27/2018**
Permit Type:	**FP CH**
Description:	**HOOD AND DUCT SYSTEM NEW INSTALLATION FOR NEW CAFETERIA "GOOGLE"**
Permit Description:	**FIRE PROTECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2018-0897
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	AAA FIRE PROTECTION SERVICES

Date:	**3/7/2018**
Permit Type:	**FP CH**
Description:	**FLOORS #1-4: F/S T.I. NEW TENANT "GOOGLE"**
Permit Description:	**FIRE PROTECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2018-0386
Status:	
Valuation:	$358,980.00
Contractor Company:	
Contractor Name:	BFP FIRE PROTECTION INC

TARGET PROPERTY FINDINGS

Date:	**2/27/2018**
Permit Type:	**FP CH**
Description:	**F/A T.I. NEW TENANT "GOOGLE"**
Permit Description:	**FIRE PROTECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2018-0375
Status:	
Valuation:	$175,700.00
Contractor Company:	
Contractor Name:	R.T.S. SYSTEMS & DESIGN

Date:	**2/5/2018**
Permit Type:	**BL EL ME PL CH PC**
Description:	**FLRS #1-4: COMM T.I. NEW TENANT, CAFETERIA, MICRO-KITCHEN, OFFICE, EXTERIOR RECREATION AREA, TRASH E**
Permit Description:	**BUILDING ELECTRICAL MECHANICAL PLUMBING PLAN CHECK ADDITIONAL PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2017-2198
Status:	
Valuation:	$21,000,000.00
Contractor Company:	
Contractor Name:	DOME CONSTRUCTION CORP

Date:	**7/21/2017**
Permit Type:	**EL**
Description:	**METER RELEASE FOR INSTALLATION OF NEW PANEL**
Permit Description:	**ELECTRICAL**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2017-2450
Status:	
Valuation:	$500.00
Contractor Company:	
Contractor Name:	NOVO CONSTRUCTION

TARGET PROPERTY FINDINGS

Date:	**6/2/2017**
Permit Type:	**EL CH**
Description:	**CONVERT OVERHEAD PG&E ELECTRICAL FEED TO UNDERGROUND**
Permit Description:	**ELECTRICAL PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2017-1932
Status:	
Valuation:	$88,000.00
Contractor Company:	
Contractor Name:	SPRIG ELECTRIC CO.

Date:	**5/2/2017**
Permit Type:	**EL FP CH**
Description:	**INSTALL EMERGENCY RESPONDER RADIO COVERAGE SYSTEM FOR NEW 4-STORY COMMERCIAL WARM SHELL BLDG**
Permit Description:	**ELECTRICAL FIRE PROTECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2017-0159
Status:	
Valuation:	$113,000.00
Contractor Company:	
Contractor Name:	RED CLOUD, INC.

Date:	**3/29/2017**
Permit Type:	**CH SN**
Description:	**INSTALL (1) NON-ILLUMINTATED BLANK MONUMENT SIGN (SIGNAGE TO BE UNDER SEPARATE PERMIT)**
Permit Description:	**PLAN CHECK SN**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2017-0963
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	NOVO CONSTRUCTION INC

TARGET PROPERTY FINDINGS

Date:	**8/30/2016**
Permit Type:	**FP CH**
Description:	**F/A SYSTEM NEW INSTALLATION FOR NEW 4-STORY COMMERCIAL WARM SHELL BLDG**
Permit Description:	**FIRE PROTECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2016-2968
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	PYRO - COMM SYSTEMS INC

Date:	**7/6/2016**
Permit Type:	**FP CH**
Description:	**F/S SYSTEM NEW INSTALLATION FOR NEW 4-STORY COMMERCIAL WARM SHELL BLDG**
Permit Description:	**FIRE PROTECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2016-2105
Status:	
Valuation:	$230,000.00
Contractor Company:	
Contractor Name:	BFP FIRE PROTECTION INC

Date:	**6/7/2016**
Permit Type:	**FP CH**
Description:	**U/G F/L FOR NEW 4-STORY COMMERCIAL WARM SHELL BLDG**
Permit Description:	**FIRE PROTECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2016-2078
Status:	
Valuation:	$30,000.00
Contractor Company:	
Contractor Name:	BLACKWELL GENERAL ENG.

TARGET PROPERTY FINDINGS

Date:	**5/17/2016**
Permit Type:	**BL EL ME PL CH PC**
Description:	**NEW 4-STORY COMMERCIAL WARM SHELL BLDG (111,443 SQ FT) (PREVIOUS A.K.A 1005 N. SHORELINE BLVD)**
Permit Description:	**BUILDING ELECTRICAL MECHANICAL PLUMBING PLAN CHECK ADDITIONAL PLAN CHECK**
Work Class:	NEW
Proposed Use:	
Permit Number:	2015-3022
Status:	
Valuation:	$23,000,000.00
Contractor Company:	
Contractor Name:	NOVO CONSTRUCTION

Date:	**2/4/2016**
Permit Type:	**GR CH**
Description:	**GRADING ONLY PERMIT (MASTER PLAN #2015-3022)**
Permit Description:	**GR PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2015-4005
Status:	
Valuation:	$478,000.00
Contractor Company:	
Contractor Name:	NOVO CONSTRUCTION

1005 N SHORELINE BLVD

Date:	**1/27/2016**
Permit Type:	**EL**
Description:	**TEMPORARY POWER POLE FOR 'MAN-LIFT'**
Permit Description:	**ELECTRICAL**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2016-0267
Status:	
Valuation:	$22,000.00
Contractor Company:	
Contractor Name:	NOVO CONSTRUCTION

TARGET PROPERTY FINDINGS

Date:	**11/12/2015**
Permit Type:	**DE**
Description:	**DEMO (1) COMMERCIAL BUILDING (1,800 SQFT) (MASTER PLAN #2015-3241)**
Permit Description:	**DEMOLITION**
Work Class:	DEMOLITION
Proposed Use:	
Permit Number:	2015-3672
Status:	
Valuation:	$14,994.00
Contractor Company:	
Contractor Name:	NOVO CONSTRUCTION

Date:	**9/29/2010**
Permit Type:	**BL**
Description:	**SHAFT AND HOOD REPAIR DUE TO FIRE DAMAGE**
Permit Description:	**BUILDING**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2010-2303
Status:	
Valuation:	$800.00
Contractor Company:	
Contractor Name:	DEVELOPMENT

Date:	**7/14/2004**
Permit Type:	**FP CH**
Description:	**UPGRADE EXISTING HOOD & DUCT TO UL300**
Permit Description:	**FIRE PROTHERECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2004-1064
Status:	
Valuation:	$7,000.00
Contractor Company:	
Contractor Name:	ACE FIRE EQUIPMENT & SERVICE CO.

TARGET PROPERTY FINDINGS

1015 N SHORELINE BLVD

Date:	**11/12/2015**
Permit Type:	**DE**
Description:	**DEMO (1) SFR (800 SQFT) (MASTER PLAN #2015-3241)**
Permit Description:	**DEMOLITION**
Work Class:	DEMOLITION
Proposed Use:	
Permit Number:	2015-3673
Status:	
Valuation:	$6,664.00
Contractor Company:	
Contractor Name:	NOVO CONSTRUCTION

1023 N SHORELINE BLVD

Date:	**11/12/2015**
Permit Type:	**DE**
Description:	**DEMO (1) COMMERCIAL BUILDING (15,513 SQFT) (MASTER PLAN #2015-3241)**
Permit Description:	**DEMOLITION**
Work Class:	DEMOLITION
Proposed Use:	
Permit Number:	2015-3674
Status:	
Valuation:	$129,223.00
Contractor Company:	
Contractor Name:	NOVO CONSTRUCTION

Date:	**3/10/2011**
Permit Type:	**FP CH**
Description:	**SUITES A, B, C: F/S T.I. "ADAPAR" AND**
Permit Description:	**FIRE PROTHERECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2011-0613
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	SURE FIRE PROTECTION CO., INC.

TARGET PROPERTY FINDINGS

Date:	**2/2/2011**
Permit Type:	**BL EL ME CH**
Description:	**SUITES A, B, C: COMM T.I. "ADAPAR" AND "AEROPRIZE"**
Permit Description:	**BUILDING ELECTRICAL MECHANICAL PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2011-0180
Status:	
Valuation:	$24,575.00
Contractor Company:	
Contractor Name:	THE COOKE CO

Date:	**9/21/2010**
Permit Type:	**FP CH**
Description:	**F/S T.I. "NO TENANT LISTED"**
Permit Description:	**FIRE PROTHERECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2010-2160
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	SURE FIRE PROTECTION CO., INC.

Date:	**8/9/2010**
Permit Type:	**BL EL ME PL CH**
Description:	**COMM T.I. ADA RESTROOM UPGRADE "ADDEPAR"**
Permit Description:	**BUILDING ELECTRICAL MECHANICAL PLUMBING PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2010-1602
Status:	
Valuation:	$50,000.00
Contractor Company:	
Contractor Name:	PLATINUM BUILDERS INC

TARGET PROPERTY FINDINGS

Date:	**5/2/2005**
Permit Type:	**ME**
Description:	**REPLACE ROOFTOP A/C UNIT "CAS ARCHITECTS"**
Permit Description:	**MECHANICAL**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2005-0745
Status:	
Valuation:	$49,000.00
Contractor Company:	
Contractor Name:	CAL-AIR INC.

Date:	**1/23/2004**
Permit Type:	**FP CH**
Description:	**"CAS" - FIRE SPRINKLER MODIFICATIONS (4 HDS)**
Permit Description:	**FIRE PROTHERECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2004-0148
Status:	
Valuation:	$7,000.00
Contractor Company:	
Contractor Name:	SUPERIOR AUTOMATIC

Date:	**12/19/2003**
Permit Type:	**BL EL ME CH**
Description:	**COMM TI - CAS OFFC**
Permit Description:	**BUILDING ELECTRICAL MECHANICAL PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2003-2441
Status:	
Valuation:	$38,300.00
Contractor Company:	
Contractor Name:	RUDOLPH & SLETTEN

TARGET PROPERTY FINDINGS

1043 N SHORELINE BLVD

Date:	**11/12/2015**
Permit Type:	**DE**
Description:	**DEMO (1) COMMERCIAL BUILDING (12,850 SQFT) (MASTER PLAN #2015-3241)**
Permit Description:	**DEMOLITION**
Work Class:	DEMOLITION
Proposed Use:	
Permit Number:	2015-3675
Status:	
Valuation:	$107,040.00
Contractor Company:	
Contractor Name:	NOVO CONSTRUCTION

1062 LINDA VISTA AVE

Date:	**12/14/2016**
Permit Type:	**BL EL CH**
Description:	**COMM T.I. CELL SITE MODIFICATIONS "VERIZON"**
Permit Description:	**BUILDING ELECTRICAL PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2015-1527
Status:	
Valuation:	$15,000.00
Contractor Company:	
Contractor Name:	CBA SITE SERVICES INC

Date:	**11/30/2015**
Permit Type:	**EL**
Description:	**TEMP POWER POLE**
Permit Description:	**ELECTRICAL**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2015-3850
Status:	
Valuation:	$500.00
Contractor Company:	
Contractor Name:	UNITED SITE SERVICES OF CA INC

TARGET PROPERTY FINDINGS

Date:	**11/16/2015**
Permit Type:	**EL**
Description:	**TEMPORARY POWER POLE**
Permit Description:	**ELECTRICAL**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2015-3716
Status:	
Valuation:	$500.00
Contractor Company:	
Contractor Name:	UNITED SITE SERVICES OF CA INC

Date:	**11/12/2015**
Permit Type:	**DE**
Description:	**DEMO (1) COMMERCIAL BUILDING (13,000 SQFT) (MASTER PLAN #2015-3241)**
Permit Description:	**DEMOLITION**
Work Class:	DEMOLITION
Proposed Use:	
Permit Number:	2015-3677
Status:	
Valuation:	$108,290.00
Contractor Company:	
Contractor Name:	NOVO CONSTRUCTION

Date:	**10/19/2015**
Permit Type:	**BL EL CH**
Description:	**CELL SITE MODIFICATIONS "VERIZON WIRELESS"**
Permit Description:	**BUILDING ELECTRICAL PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2015-3148
Status:	
Valuation:	$5,000.00
Contractor Company:	
Contractor Name:	APEX SITE SOLUTIONS INC

TARGET PROPERTY FINDINGS

Date:	**1/23/2015**
Permit Type:	**BL EL CH**
Description:	**COMM T.I. INSTALL ADDITIONAL BATTERY CABINET FOR (E) CELL SITE "VERIZON WIRELESS"**
Permit Description:	**BUILDING ELECTRICAL PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2014-2001
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	QUALITY TELECOM CONSULTANTS

Date:	**5/7/2013**
Permit Type:	**BL EL CH**
Description:	**COMM T.I. ANTENNA AND EQUIPMENT UPGRADE "VERIZON WIRELESS"**
Permit Description:	**BUILDING ELECTRICAL PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2013-0547
Status:	
Valuation:	$200,000.00
Contractor Company:	
Contractor Name:	BOTHWELL CONSTRUCTION CORPORATION

1091 N SHORELINE BLVD

Date:	**12/17/2015**
Permit Type:	**DE**
Description:	**DEMO (1) COMMERCIAL BUILDING (30,268 SQFT) (PHASE 2)**
Permit Description:	**DEMOLITION**
Work Class:	DEMOLITION
Proposed Use:	
Permit Number:	2015-3816
Status:	
Valuation:	$40,000.00
Contractor Company:	
Contractor Name:	NOVO CONSTRUCTION

TARGET PROPERTY FINDINGS

Date:	**2/23/2012**
Permit Type:	**BL EL ME PL CH**
Description:	**COMM T.I. "AGILONE"**
Permit Description:	**BUILDING ELECTRICAL MECHANICAL PLUMBING PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2012-0272
Status:	
Valuation:	$15,000.00
Contractor Company:	
Contractor Name:	LEAVER'S CONSTRUCTION

Date:	**7/29/2010**
Permit Type:	**FP CH**
Description:	**INSTALL F/S MONITORING SYSTEM " J.W. EQUITIES**
Permit Description:	**FIRE PROTHERECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2010-1543
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	BAY ALARM CO

Date:	**1/4/2006**
Permit Type:	**FP CH**
Description:	**1ST FLOOR: F/S T.I. "LAWSON-HAWKS INS." (ADD 7**
Permit Description:	**FIRE PROTHERECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2005-2485
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	FIRE STOP SPRINKLER CO

TARGET PROPERTY FINDINGS

Date:	**12/19/2005**
Permit Type:	**BL EL ME PL CH**
Description:	**COMM TI "FANFARE GROUP"**
Permit Description:	**BUILDING ELECTRICAL MECHANICAL PLUMBING PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2005-2441
Status:	
Valuation:	$115,600.00
Contractor Company:	
Contractor Name:	TICON

Date:	**2/11/2005**
Permit Type:	**CH SN**
Description:	**NEW MONUMENT SIGN**
Permit Description:	**PLAN CHECK SIGN**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2005-0241
Status:	
Valuation:	$6,800.00
Contractor Company:	
Contractor Name:	COULTHARD IDENTITY GROUP

Date:	**9/16/2004**
Permit Type:	**FP CH**
Description:	**F/S T.I. 1ST & 2ND FLOOR, RESTROOM/LOBBY (23**
Permit Description:	**FIRE PROTHERECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2004-1633
Status:	
Valuation:	$7,000.00
Contractor Company:	
Contractor Name:	PACIFIC COAST FIRE

TARGET PROPERTY FINDINGS

Date:	**7/8/2004**
Permit Type:	**BL EL ME PL CH**
Description:	**COMM T.I. "LAWSON-HAWKS"**
Permit Description:	**BUILDING ELECTRICAL MECHANICAL PLUMBING PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2004-1078
Status:	
Valuation:	$395,000.00
Contractor Company:	
Contractor Name:	MCON CONSTRUCTION

ADJOINING PROPERTY FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

LINDA VISTA AVE

1012 LINDA VISTA AVE

Date:	**8/7/2017**
Permit Type:	**BL CH**
Description:	**BLDG #A: COMM T.I. INTERIOR AND EXTERIOR MODS FOR A TEMP CHARTER SCHOOL "SUMMIT DENALI CHARTER SCHOO**
Permit Description:	**BUILDING PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2017-2690
Status:	
Valuation:	$5,000.00
Contractor Company:	
Contractor Name:	CENTRAL VALLEY RELOCATABLE

Date:	**12/16/2015**
Permit Type:	**BL CH**
Description:	**COMM T.I. MODIFY EXTERIOR WALL ALONG PROPERTY LINE "TERRA BELLA ACADEMY"**
Permit Description:	**BUILDING PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2015-3917
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	CA. ENGINEERING CONTRACTORS INC

ADJOINING PROPERTY FINDINGS

Date: **12/24/2009**
Permit Type: **FP CH**
Description: **F/A T.I. "TERRA BELLA SCHOOL"**

Permit Description: **FIRE PROTHERECTION PLAN CHECK**
Work Class: OTHER
Proposed Use:
Permit Number: 2009-1050
Status:
Valuation: $10,000.00
Contractor Company:
Contractor Name:

Date: **12/21/2009**
Permit Type: **FP CH**
Description: **F/S NEW INSTALLATION "TERRA BELLA ACADEMY"**

Permit Description: **FIRE PROTHERECTION PLAN CHECK**
Work Class: OTHER
Proposed Use:
Permit Number: 2009-2345
Status:
Valuation: $15,000.00
Contractor Company:
Contractor Name:

Date: **12/21/2009**
Permit Type: **FP CH**
Description: **U/G NEW INSTALLATION "TERRA BELLA ACADEMY"**

Permit Description: **FIRE PROTHERECTION PLAN CHECK**
Work Class: OTHER
Proposed Use:
Permit Number: 2009-2376
Status:
Valuation: $10,000.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **11/23/2009**
Permit Type: **BL EL ME PL CH**
Description: **COMM T.I. "TERRA BELLA ACADEMY"**

Permit Description: **BUILDING ELECTRICAL MECHANICAL PLUMBING PLAN CHECK**
Work Class: TENANT IMPROVEMENT
Proposed Use:
Permit Number: 2009-1849
Status:
Valuation: $373,900.00
Contractor Company:
Contractor Name: AZMY & ETADAL TADROS

1049 LINDA VISTA AVE

Date: **7/2/2014**
Permit Type: **BL EL ME CH**
Description: **COMM T.I. ADD A/C UNIT AND DUCTS "DA LUSSO DESIGN"**

Permit Description: **BUILDING ELECTRICAL MECHANICAL PLAN CHECK**
Work Class: TENANT IMPROVEMENT
Proposed Use:
Permit Number: 2014-2304
Status:
Valuation: $12,800.00
Contractor Company:
Contractor Name: CONTROLLED SYSTEMS

Date: **5/16/2003**
Permit Type: **BL EL ME PL CH**
Description: **COMM TI BUILD OUT OF EXISTING OFFICE/WAREHOUSE**

Permit Description: **BUILDING ELECTRICAL MECHANICAL PLUMBING PLAN CHECK**
Work Class: TENANT IMPROVEMENT
Proposed Use:
Permit Number: 2003-0737
Status:
Valuation: $55,000.00
Contractor Company:
Contractor Name: CHARLES PRUIT CONSTRUCTION

ADJOINING PROPERTY FINDINGS

1080 LINDA VISTA AVE

Date:	**11/1/2017**
Permit Type:	**FP CH**
Description:	**1ST & 2ND FLR: F/A T.I. (N) OFFICES, CONF RMS, CLASSROOMS, LOUNGE AREA, TRASH ENCLOSURE "CHURCH OF S**
Permit Description:	**FIRE PROTECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2017-2949
Status:	
Valuation:	$70,000.00
Contractor Company:	
Contractor Name:	RED HAWK FIRE & SECURITY CA LLC

Date:	**10/19/2017**
Permit Type:	**FP CH**
Description:	**U/G F/L FOR EXISTING BLDG "CHURCH OF SCIENTOLOGY" (MASTER PLAN #2017 -3575)**
Permit Description:	**FIRE PROTECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2017-3576
Status:	
Valuation:	$77,500.00
Contractor Company:	
Contractor Name:	DPI INC

ADJOINING PROPERTY FINDINGS

Date:	**8/17/2017**
Permit Type:	**FP CH**
Description:	**1ST & 2ND FLR: F/S T.I. (N) OFFICES, CONF RMS, CLASSROOMS, LOUNGE DISPLAY AREA, TRASH ENCLOSURE, AND**
Permit Description:	**FIRE PROTECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2017-2358
Status:	
Valuation:	$104,290.00
Contractor Company:	
Contractor Name:	BOLLS FIRE AND SAFETY INC

Date:	**6/5/2017**
Permit Type:	**BL EL ME PL CH**
Description:	**1ST & 2ND FLR: COMM T.I. (N) OFFICES, CONF RMS, CLASSROOMS, LOUNGE DISPLAY AREA, TRASH ENCLOSURE, CA**
Permit Description:	**BUILDING ELECTRICAL MECHANICAL PLUMBING PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2017-1946
Status:	
Valuation:	$3,920,067.00
Contractor Company:	
Contractor Name:	HILLHOUSE CONTRUCTION CO. INC.

ADJOINING PROPERTY FINDINGS

Date:	**4/26/2017**
Permit Type:	**BL**
Description:	**INTERIOR DEMO ONLY (COMM T.I. UNDER SEPARATE PERMIT) "CHURCH OF SCIENCTOLOGY"**
Permit Description:	**BUILDING**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2017-1470
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	HILLHOUSE CONSTRUCTION

Date:	**11/9/2005**
Permit Type:	**BL EL PL CH**
Description:	**COMM TI "ILOG" (SITE WORK) & CANOPY & H/C UPGRADES**
Permit Description:	**BUILDING ELECTRICAL PLUMBING PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2005-1389
Status:	
Valuation:	$800,000.00
Contractor Company:	
Contractor Name:	DPR CONSTRUCTION, INC.

Date:	**6/9/2005**
Permit Type:	**FP CH**
Description:	**MODIFICATION TO EXISTING F/S MONITORING**
Permit Description:	**FIRE PROTHERECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2005-0983
Status:	
Valuation:	$7,000.00
Contractor Company:	
Contractor Name:	PACIFIC WEST SECURITY, INC

ADJOINING PROPERTY FINDINGS

Date:	**3/8/2005**
Permit Type:	**EL ME CH**
Description:	**INSTALL NEW SPLIT UNIT FOR SERVER ROOM**
Permit Description:	**ELECTRICAL MECHANICAL PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2005-0384
Status:	
Valuation:	$25,000.00
Contractor Company:	
Contractor Name:	J & J AIR CONDITIONING

Date:	**2/1/2005**
Permit Type:	**FP CH**
Description:	**INSTALL FM200 FIRE SUPPRESSION SYSTEM**
Permit Description:	**FIRE PROTHERECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2004-2425
Status:	
Valuation:	$15,000.00
Contractor Company:	
Contractor Name:	SABAH INTERNATIONAL INC.

Date:	**10/30/2000**
Permit Type:	**FP CH**
Description:	**FIRE SPRINKLER "ILOG"**
Permit Description:	**FIRE PROTHERECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2000-2753
Status:	
Valuation:	$7,000.00
Contractor Company:	
Contractor Name:	ALLAN AUTOMATIC SPRINKLER

ADJOINING PROPERTY FINDINGS

Date:	**10/16/2000**
Permit Type:	**BL EL CH**
Description:	**MINOR TI (ADD 2 NEW OFFICES) FOR "ILOG"**
Permit Description:	**BUILDING ELECTRICAL PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2000-2330
Status:	
Valuation:	$30,616.00
Contractor Company:	
Contractor Name:	PRECISION CONSTRUCTION & INTERIORS

N SHORELINE BLVD

943 N SHORELINE BLVD

Date:	**9/4/2007**
Permit Type:	**FP CH**
Description:	**F/S T.I. "HARRY K. WONG PUBLICATIONS"**
Permit Description:	**FIRE PROTHERECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2007-1788
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	PEIFER FIRE PROTECTION INC

ADJOINING PROPERTY FINDINGS

Date:	**6/13/2007**
Permit Type:	**BL EL ME PL CH**
Description:	**COMM T.I. MODIFY OFFICE SPACE "HARRY WONG PUBLICATIONS"**
Permit Description:	**BUILDING ELECTRICAL MECHANICAL PLUMBING PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2007-0931
Status:	
Valuation:	$112,700.00
Contractor Company:	
Contractor Name:	CHATEAU CONSTRUCTION CO

Date:	**10/29/2001**
Permit Type:	**PL**
Description:	**REPLACE EXISTING SEWER LINE**
Permit Description:	**PLUMBING**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2001-2176
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**3/16/2000**
Permit Type:	**BL CH**
Description:	**NON-ILLUMINATED BLDG MOUNTED SIGN-**
Permit Description:	**BUILDING PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2000-1014
Status:	
Valuation:	$500.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

967 N SHORELINE BLVD

Date:	**10/23/2012**
Permit Type:	**BL EL CH**
Description:	**COMM T.I. "EYE-FI"**
Permit Description:	**BUILDING ELECTRICAL PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2012-2863
Status:	
Valuation:	$65,000.00
Contractor Company:	
Contractor Name:	VANCE BROWN

Date:	**10/8/2012**
Permit Type:	**BL**
Description:	**INTERIOR DEMO ONLY (COMM T.I. UNDER**
Permit Description:	**BUILDING**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2012-2766
Status:	
Valuation:	$5,000.00
Contractor Company:	
Contractor Name:	VANCE BROWN

Date:	**3/17/2009**
Permit Type:	**FP CH**
Description:	**U/G F/L RELOCATION "RITA MEDICAL"**
Permit Description:	**FIRE PROTHERECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2009-0384
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	BFP

ADJOINING PROPERTY FINDINGS

Date:	**8/15/2006**
Permit Type:	**BL CH**
Description:	**REPLACE EXISTING ROOF SCREEN "INTRAPACE"**
Permit Description:	**BUILDING PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2006-1464
Status:	
Valuation:	$30,000.00
Contractor Company:	
Contractor Name:	VANCE BROWN

Date:	**7/10/2006**
Permit Type:	**RF**
Description:	**REROOFING**
Permit Description:	**ROOF**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2006-1321
Status:	
Valuation:	$67,932.00
Contractor Company:	
Contractor Name:	

Date:	**9/5/2001**
Permit Type:	**FP CH**
Description:	**PLAN CHECK- SPRK MONITORING SYSTEM- "RITA**
Permit Description:	**FIRE PROTHERECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2001-1699
Status:	
Valuation:	$7,000.00
Contractor Company:	
Contractor Name:	PACIFIC WEST SECURITY, INC

ADJOINING PROPERTY FINDINGS

Date:	**6/21/2001**
Permit Type:	**FP CH**
Description:	**FIRE SPRINKLERS- RITA MEDICAL**
Permit Description:	**FIRE PROTHERECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2001-1194
Status:	
Valuation:	$7,000.00
Contractor Company:	
Contractor Name:	BOLLS FIRE PROT

Date:	**5/29/2001**
Permit Type:	**BL EL ME PL CH PC**
Description:	**COMM TI- "RITA MEDICAL"**
Permit Description:	**BUILDING ELECTRICAL MECHANICAL PLUMBING PLAN CHECK ADDITIONAL PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2001-1025
Status:	
Valuation:	$298,000.00
Contractor Company:	
Contractor Name:	SOUTH BAY CONSTRUCTION

Date:	**2/16/2001**
Permit Type:	**BL ME PL CH**
Description:	**REPLACE (E) A/C UNIT W/NEW ONE**
Permit Description:	**BUILDING MECHANICAL PLUMBING PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2001-0267
Status:	
Valuation:	$1,500.00
Contractor Company:	
Contractor Name:	THERMA CORPORATION

ADJOINING PROPERTY FINDINGS

975 N SHORELINE BLVD

Date:	**7/18/2018**
Permit Type:	**BL EL ME PL CH**
Description:	**COMM T.I. INTERIOR REMODEL, (N) FURNITURE, FINISHES, RESTROOMS, AND L.E.D. LIGHTING "TACO BELL"**
Permit Description:	**BUILDING ELECTRICAL MECHANICAL PLUMBING PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2018-0198
Status:	
Valuation:	$81,123.00
Contractor Company:	
Contractor Name:	JT CONSTRUCTION SERVICES, INC

Date:	**7/28/2011**
Permit Type:	**BL EL ME PL CH**
Description:	**COMM T.I. INTERIOR AND EXTERIOR UPGRADES "TACO BELL"**
Permit Description:	**BUILDING ELECTRICAL MECHANICAL PLUMBING PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2010-3118
Status:	
Valuation:	$85,000.00
Contractor Company:	
Contractor Name:	ROFF ENTERPRISES

ADJOINING PROPERTY FINDINGS

Date:	**7/13/2011**
Permit Type:	**EL CH SN**
Description:	**SIGN AND CANOPY PACKAGE "TACO BELL"**
Permit Description:	**ELECTRICAL PLAN CHECK SN**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2011-1649
Status:	
Valuation:	$8,000.00
Contractor Company:	
Contractor Name:	PREMIER SIGN COMPANY

Date:	**4/11/2001**
Permit Type:	**BL EL CH**
Description:	**INSTALL FREESTANDING ILLUM. MENU SIGN @**
Permit Description:	**BUILDING ELECTRICAL PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2001-0748
Status:	
Valuation:	$1,500.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

TERRA BELLA AVE

1090 TERRA BELLA AVE

Date:	**10/6/2003**
Permit Type:	**FP CH**
Description:	**F/S T.I. IN DRY ROOM "CLONETECH" BLDG 6 (6**
Permit Description:	**FIRE PROTHERECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2003-1826
Status:	
Valuation:	$7,000.00
Contractor Company:	
Contractor Name:	

1110 TERRA BELLA AVE

Date:	**12/20/2006**
Permit Type:	**FP CH**
Description:	**INSTALL NEW F/A SYSTEM "MOUNTAIN VIEW**
Permit Description:	**FIRE PROTHERECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2006-2287
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **10/30/2006**
Permit Type: **BL CH SN**
Description: **INSTALL SIGN W/REDWOOD POSTS "TERRA BELLA**

Permit Description: **BUILDING PLAN CHECK SIGN**
Work Class: OTHER
Proposed Use:
Permit Number: 2006-2396
Status:
Valuation: $1,482.00
Contractor Company:
Contractor Name:

1130 TERRA BELLA AVE

Date: **11/12/2015**
Permit Type: **DE**
Description: **DEMO (1) COMMERCIAL BUILDING (11,592 SQFT) (MASTER PLAN #2015-3241)**

Permit Description: **DEMOLITION**
Work Class: DEMOLITION
Proposed Use:
Permit Number: 2015-3678
Status:
Valuation: $96,561.00
Contractor Company:
Contractor Name: NOVO CONSTRUCTION

Date: **3/5/2001**
Permit Type: **FP CH**
Description: **FIRE SPRINKLERS "NETREON"- 35 HEADS**

Permit Description: **FIRE PROTHERECTION PLAN CHECK**
Work Class: OTHER
Proposed Use:
Permit Number: 2001-0353
Status:
Valuation: $7,000.00
Contractor Company:
Contractor Name: ALERT FIRE PROTECTION

ADJOINING PROPERTY FINDINGS

Date:	**1/26/2001**
Permit Type:	**BL EL ME CH**
Description:	**COMM TI " PEERLESS SYSTEMS"**
Permit Description:	**BUILDING ELECTRICAL MECHANICAL PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2000-1820
Status:	
Valuation:	$18,960.00
Contractor Company:	
Contractor Name:	MCLARNEY CONSTRUCTION

1145 TERRA BELLA AVE

Date:	**10/6/2016**
Permit Type:	**FP CH**
Description:	**F/A T.I. NEW CLEAN ROOM, R&D LAB, OFFICE, STORAGE ROOM AND ROOFTOP HVAC EQUIPMENT "AMARANTH MEDICAL"**
Permit Description:	**FIRE PROTECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2016-3853
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	PENINSULA SECURITY SYSTEMS

ADJOINING PROPERTY FINDINGS

Date:	**9/15/2016**
Permit Type:	**FP CH**
Description:	**F/S T.I. NEW CLEAN ROOM, R&D LAB, OFFICE, STORAGE ROOM AND ROOFTOP HVAC EQUIPMENT "AMARANTH MEDICAL"**
Permit Description:	**FIRE PROTECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2016-3604
Status:	
Valuation:	$10,948.00
Contractor Company:	
Contractor Name:	WALSCHON FIRE PROTECTION INC

Date:	**8/16/2016**
Permit Type:	**BL EL ME PL CH**
Description:	**COMM T.I. NEW CLEAN ROOM, R&D LAB, OFFICE, STORAGE ROOM AND ROOFTOP HVAC EQUIPMENT "AMARANTH MEDICAL**
Permit Description:	**BUILDING ELECTRICAL MECHANICAL PLUMBING PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2016-2153
Status:	
Valuation:	$150,000.00
Contractor Company:	
Contractor Name:	NOBREGA PROPERTY SERVICES

Date:	**10/6/2015**
Permit Type:	**FP CH**
Description:	**SUITE A: F/A T.I. "AMARANTH MEDICAL"**
Permit Description:	**FIRE PROTECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2015-1112
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	HUE & CRY INC

ADJOINING PROPERTY FINDINGS

Date:	**6/30/2015**
Permit Type:	**BL EL ME CH**
Description:	**COMM T.I. INSTALL (2) WALK-IN FREEZERS, MODIFY (2) COMPRESSORS & INSTALL NEW EXHAUST FAN "AMARANTH M**
Permit Description:	**BUILDING ELECTRICAL MECHANICAL PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2015-1809
Status:	
Valuation:	$100,000.00
Contractor Company:	
Contractor Name:	JOEL B NOBREGA

Date:	**4/9/2015**
Permit Type:	**FP CH**
Description:	**F/S SYSTEM INSTALLATION INSIDE TWO FREEZERS "AMARANTH"**
Permit Description:	**FIRE PROTECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2015-1122
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	WEST COAST FIRE SPRINKLERS

Date:	**3/31/2015**
Permit Type:	**FP CH**
Description:	**INSTALL NEW CLEAN AGENT SUPPRESSION SYSTEM INSIDE TWO FREEZERS "AMARANTH"**
Permit Description:	**FIRE PROTECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2015-1013
Status:	
Valuation:	$30,000.00
Contractor Company:	
Contractor Name:	FIRE SAFETY SUPPLY

ADJOINING PROPERTY FINDINGS

Date:	**12/5/2014**
Permit Type:	**BL ME CH**
Description:	**COMM T.I. ADDING (6) HVAC UNITS "AMARANTH"**
Permit Description:	**BUILDING MECHANICAL PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2014-3871
Status:	
Valuation:	$15,000.00
Contractor Company:	
Contractor Name:	A-1 HEATING & COOLING

Date:	**8/14/2014**
Permit Type:	**FP CH**
Description:	**F/S T.I. COMBINE SUITES TO EXPAND (E) TENANT "AMARANTH"**
Permit Description:	**FIRE PROTECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2014-2702
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	WEST COAST FIRE SPRINKLERS

Date:	**8/13/2014**
Permit Type:	**BL EL ME PL CH**
Description:	**COMM T.I. COMBINE SUITES TO EXPAND (E) TENANT "AMARANTH"**
Permit Description:	**BUILDING ELECTRICAL MECHANICAL PLUMBING PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2014-2129
Status:	
Valuation:	$273,153.00
Contractor Company:	
Contractor Name:	JOEL B NOBREGA

ADJOINING PROPERTY FINDINGS

Date:	**8/8/2014**
Permit Type:	**RF**
Description:	**T/O TAR & GRAVEL AND RRF W/3-PLY MODIFIED BITUMEN SYSTEM (14,504 SQFT)**
Permit Description:	**ROOF**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2014-2637
Status:	
Valuation:	$70,000.00
Contractor Company:	
Contractor Name:	LINDY ROOFING COMPANY INC.

Date:	**12/19/2013**
Permit Type:	**FP CH**
Description:	**SUITE A: F/S T.I. "AMARANTH MEDICAL"**
Permit Description:	**FIRE PROTECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2013-4225
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	WEST COAST FIRE SPRINKLERS

Date:	**2/16/2012**
Permit Type:	**FP CH**
Description:	**F/S T.I. "BENTON MEDICAL EQUIPMENT"**
Permit Description:	**FIRE PROTHERECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2012-0452
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	SPRINKLERS

ADJOINING PROPERTY FINDINGS

Date:	**1/30/2012**
Permit Type:	**BL EL ME CH**
Description:	**COMM T.I. "BENTON MEDICAL EQUIPMENT"**
Permit Description:	**BUILDING ELECTRICAL MECHANICAL PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2012-0172
Status:	
Valuation:	$80,000.00
Contractor Company:	
Contractor Name:	JOEL B NOBREGA

Date:	**12/15/2011**
Permit Type:	**FP CH**
Description:	**F/S T.I. CREATE INTERIOR SPEC SUITE - MARKET READY "NO TENANT"**
Permit Description:	**FIRE PROTECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2011-3095
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	WEST COAST FIRE SPRINKLERS

Date:	**12/14/2011**
Permit Type:	**BL EL ME PL CH**
Description:	**COMM T.I. CREATE INTERIOR SPEC SUITE - MARKET READY "NO TENANT"**
Permit Description:	**BUILDING ELECTRICAL MECHANICAL PLUMBING PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2011-2679
Status:	
Valuation:	$116,195.00
Contractor Company:	
Contractor Name:	JOEL B NOBREGA

ADJOINING PROPERTY FINDINGS

Date:	**3/24/2008**
Permit Type:	**FP CH**
Description:	**F/S T.I. "AMARANTH MEDICAL" (RELOC. 13 HEADS**
Permit Description:	**FIRE PROTHERECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2008-0384
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	FIRE STOP SPRINKLER CO

Date:	**3/20/2008**
Permit Type:	**BL EL ME CH**
Description:	**COMM T.I. "AMARANTH MEDICAL"**
Permit Description:	**BUILDING ELECTRICAL MECHANICAL PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2008-0433
Status:	
Valuation:	$28,500.00
Contractor Company:	
Contractor Name:	CONSTRUCTION SERVICES CO

Date:	**5/20/2003**
Permit Type:	**FP CH**
Description:	**F/S. T.I. (39 HEADS) "WELLO CO."**
Permit Description:	**FIRE PROTHERECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2003-0881
Status:	
Valuation:	$7,000.00
Contractor Company:	
Contractor Name:	SPRINKLERS

ADJOINING PROPERTY FINDINGS

Date:	**5/12/2003**
Permit Type:	**BL EL ME CH**
Description:	**COMM TI - EVOLVE INC.**
Permit Description:	**BUILDING ELECTRICAL MECHANICAL PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2003-0831
Status:	
Valuation:	$187,000.00
Contractor Company:	
Contractor Name:	CODY/ BROCK INC

Date:	**7/9/2002**
Permit Type:	**BL EL ME PL CH**
Description:	**COMM TI "EVOLVE"**
Permit Description:	**BUILDING ELECTRICAL MECHANICAL PLUMBING PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2002-1141
Status:	
Valuation:	$284,500.00
Contractor Company:	
Contractor Name:	CODY/ BROCK INC

Date:	**7/5/2002**
Permit Type:	**FP CH**
Description:	**FIRE SPRK**
Permit Description:	**FIRE PROTHERECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2002-1131
Status:	
Valuation:	$7,000.00
Contractor Company:	
Contractor Name:	SPRINKLERS

ADJOINING PROPERTY FINDINGS

Date: **11/2/2001**
Permit Type: **FP CH**
Description: **FIRE SPRK RELOCATE (16 HEADS)**

Permit Description: **FIRE PROTHERECTION PLAN CHECK**
Work Class: OTHER
Proposed Use:
Permit Number: 2001-2140
Status:
Valuation: $7,000.00
Contractor Company:
Contractor Name: SPRINKLERS

Date: **9/25/2001**
Permit Type: **BL EL ME PL CH**
Description: **COMM TI, CORE IMPROVEMENTS, VOLUNTARY SEISMIC UPGRADE**

Permit Description: **BUILDING ELECTRICAL MECHANICAL PLUMBING PLAN CHECK**
Work Class: TENANT IMPROVEMENT
Proposed Use:
Permit Number: 2001-0999
Status:
Valuation: $375,000.00
Contractor Company:
Contractor Name: CODY/ BROCK INC

1150 TERRA BELLA AVE

Date: **11/12/2015**
Permit Type: **DE**
Description: **DEMO (1) SFR (1,200 SQFT) (MASTER PLAN #2015-3241)**

Permit Description: **DEMOLITION**
Work Class: DEMOLITION
Proposed Use:
Permit Number: 2015-3676
Status:
Valuation: $9,996.00
Contractor Company:
Contractor Name: NOVO CONSTRUCTION

ADJOINING PROPERTY FINDINGS

1155 TERRA BELLA AVE

Date:	**11/17/2008**
Permit Type:	**BL EL ME PL CH**
Description:	**COMM T.I. "DOGGIEVILLE"**
Permit Description:	**BUILDING ELECTRICAL MECHANICAL PLUMBING PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2008-1954
Status:	
Valuation:	$106,000.00
Contractor Company:	
Contractor Name:	TISYS CONSTRUCTION AND DEVELOPMENT

1160 TERRA BELLA AVE

Date:	**11/12/2015**
Permit Type:	**DE**
Description:	**DEMO (1) COMMERCIAL BUILDING (7,840 SQFT) (MASTER PLAN #2015-3241)**
Permit Description:	**DEMOLITION**
Work Class:	DEMOLITION
Proposed Use:	
Permit Number:	2015-3671
Status:	
Valuation:	$65,307.00
Contractor Company:	
Contractor Name:	NOVO CONSTRUCTION

ADJOINING PROPERTY FINDINGS

1185 TERRA BELLA AVE

Date:	**2/25/2015**
Permit Type:	**BL**
Description:	**REPAIR FLAT ROOR FRAMING FOR PARAPET**
Permit Description:	**BUILDING**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2015-0550
Status:	
Valuation:	$7,641.00
Contractor Company:	
Contractor Name:	EASTMAN ROOFING WATERPROOF

Date:	**9/20/2012**
Permit Type:	**EL**
Description:	**EMERGENCY ELEC. REPAIR, DUE TO ILLEGAL**
Permit Description:	**ELECTRICAL**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2012-2616
Status:	
Valuation:	$3,000.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

1212 TERRA BELLA AVE

Date:	**5/9/2017**
Permit Type:	**FP CH**
Description:	**F/A VOLUNTARY VOICE EVACUATION SYSTEM UPGRADE (LANDLORD IMPROVEMENT)**
Permit Description:	**FIRE PROTECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2017-1395
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	BAY ALARM CO

Date:	**2/29/2000**
Permit Type:	**BL EL ME CH**
Description:	**COMM TI "IRIDEX"**
Permit Description:	**BUILDING ELECTRICAL MECHANICAL PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2000-0853
Status:	
Valuation:	$50,000.00
Contractor Company:	
Contractor Name:	G. L. ROSS, INC.

ADJOINING PROPERTY FINDINGS

1215 TERRA BELLA AVE

Date:	**5/9/2017**
Permit Type:	**FP CH**
Description:	**F/A T.I. CONTROL PANEL VOLUNTARY UPGRADE (LANDLORD IMPROVEMENT)**
Permit Description:	**FIRE PROTECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2017-1450
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	BAY ALARM

Date:	**6/28/2006**
Permit Type:	**BL EL ME CH**
Description:	**COMM. T.I. "OPEN TV"**
Permit Description:	**BUILDING ELECTRICAL MECHANICAL PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2006-1095
Status:	
Valuation:	$61,200.00
Contractor Company:	
Contractor Name:	SC BUILDERS INC

Date:	**5/17/2000**
Permit Type:	**FP CH**
Description:	**AUTOMATIC FIRE SPRINKLER**
Permit Description:	**FIRE PROTHERECTION PLAN CHECK**
Work Class:	OTHER
Proposed Use:	
Permit Number:	2000-1273
Status:	
Valuation:	$7,000.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**4/28/2000**
Permit Type:	**BL EL ME PL CH**
Description:	**COMM TI- "VALICERT"**
Permit Description:	**BUILDING ELECTRICAL MECHANICAL PLUMBING PLAN CHECK**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	2000-1130
Status:	
Valuation:	$77,520.00
Contractor Company:	
Contractor Name:	DEVCON CONSTRUCTION

GLOSSARY

General Building Department concepts

- **ICC:** The International Code Council. The governing body for the building/development codes used by all jurisdictions who've adopted the ICC guidelines. MOST of the US has done this. Canada, Mexico, and other countries use ICC codes books and guides as well. There are a few states who have added guidelines to the ICC codes to better fit their needs. For example, California has added seismic retrofit requirements for most commercial structures.
- **Building Department (Permitting Authority, Building Codes, Inspections Department, Building and Inspections):** This is the department in a jurisdiction where an owner or contractor goes to obtain permits and inspections for building, tearing down, remodeling, adding to, re-roofing, moving or otherwise making changes to any structure, Residential or Commercial.
- **Jurisdiction:** This is the geographic area representing the properties over which a Permitting Authority has responsibility.
- **GC:** General Contractor. Usually the primary contractor hired for any Residential or Commercial construction work.
- **Sub:** Subordinate contracting companies or subcontractors. Usually a "trades" contractor working for the GC. These contractors generally have an area of expertise in which they are licensed like Plumbing, Electrical, Heating and Air systems, Gas Systems, Pools etc. (called "trades").
- **Journeymen:** Sub contractors who have their own personal licenses in one or more trades and work for different contracting companies, wherever they are needed or there is work.
- **HVAC (Mechanical, Heating & Air companies):** HVAC = Heating, Ventilation, and Air Conditioning.
- **ELEC (Electrical, TempPole, TPole, TPower, Temporary Power, Panel, AMP Change, Power Release):** Electrical permits can be pulled for many reasons. The most common reason is to increase the AMPs of power in an electrical power panel. This requires a permit in almost every jurisdiction. Other commons reason for Electrical permits is to insert a temporary power pole at a new construction site. Construction requires electricity, and in a new development, power has yet to be run to the lot. The temporary power pole is usually the very first permit pulled for new development. The power is released to the home owner when construction is complete and this sometimes takes the form of a Power Release permit or inspection.
- **"Pull" a permit:** To obtain and pay for a building permit.
- **CBO:** Chief Building Official
- **Planning Department:** The department in the development process where the building /structural plans are reviewed for their completeness and compliance with building codes
- **Zoning Department:** The department in the development process where the site plans are reviewed for their compliance with the regulations associated with the zoning district in which they are situated.
- **Zoning District:** A pre-determined geographic boundary within a jurisdiction where certain types of structures are permitted / prohibited. Examples are Residential structure, Commercial/Retail structures, Industrial/Manufacturing structures etc. Each zoning district has regulations associated with it like the sizes of the lots, the density of the structures on the lots, the number of parking spaces required for certain types of structures on the lots etc.
- **PIN (TMS, GIS ID, Parcel#):** Property Identification Number and Tax Map System number.
- **State Card (Business license):** A license card issued to a contractor to conduct business.
- **Building Inspector (Inspector):** The inspector is a building department employee that inspects building construction for compliance to codes.
- **C.O.:** Certificate of Occupancy. This is the end of the construction process and designates that the owners now have permission to occupy a structure after its building is complete. Sometimes also referred to as a Certificate of Compliance.

GLOSSARY

Permit Content Definitions

- Permit Number: The alphanumerical designation assigned to a permit for tracking within the building department system. Sometimes the permit number gives clues to its role, e.g. a "PL" prefix may designate a plumbing permit.
- Description: A field on the permit form that allows the building department to give a brief description of the work being done. More often than not, this is the most important field for EP's to find clues to the prior use(s) of the property.
- Permit Type: Generally a brief designation of the type of job being done. For example BLDG-RES, BLDG-COM, ELEC, MECH etc.

Sample Building Permit Data

Date: Nov 09, 2000
Permit Type: Bldg -
New Permit Number: 101000000405
Status: Valuation: $1,000,000.00
Contractor Company: OWNER-BUILDER
Contractor Name:

Description: New one store retail (SAV-ON) with drive-thru pharmacy. Certificate of Occupancy.

1001-1091 Sterlin Rd & 1130-1170 Terra Bella Ave

1001-1091 N Shoreline Blvd & 1062 Linda Vista Ave

Mountain View, CA 94043

Inquiry Number: 5591584.11

March 15, 2019

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

03/15/19

Site Name:

1001-1091 Sterlin Rd & 1130-1
1001-1091 N Shoreline Blvd &
Mountain View, CA 94043
EDR Inquiry # 5591584.11

Client Name:

EKI Environment & Water, Inc.
577 Airport Blvd Suite 500
Burlingame, CA 94010
Contact: James Yoon

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1998	1"=500'	Flight Date: August 27, 1998	USDA
1991	1"=500'	Acquisition Date: October 30, 1991	USGS/DOQQ
1982	1"=500'	Flight Date: July 05, 1982	USDA
1974	1"=500'	Flight Date: June 26, 1974	USGS
1968	1"=500'	Flight Date: June 14, 1968	USGS
1963	1"=500'	Flight Date: June 23, 1963	EDR Proprietary Aerial Viewpoint
1956	1"=500'	Flight Date: June 05, 1956	USDA
1950	1"=500'	Flight Date: April 03, 1950	USDA
1948	1"=500'	Flight Date: September 26, 1948	USDA
1943	1"=500'	Flight Date: October 05, 1943	USDA
1939	1"=500'	Flight Date: July 31, 1939	USDA

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INQUIRY #: 5591584.11
YEAR: 2016
= 500'
N
EDR


INQUIRY #: 5591584.11
YEAR: 2012
= 500'
N
EDR


INQUIRY #: 5591584.11
YEAR: 2009
= 500'
N
EDR


INQUIRY #: 5591584.11
YEAR: 2006
= 500'
N
EDR


INQUIRY #: 5591584.11
YEAR: 1998
= 500'
N
EDR


INQUIRY #: 5591584.11
YEAR: 1991
= 500'
N
EDR


INQUIRY #: 5591584.11
YEAR: 1982
= 500'
N
EDR


INQUIRY #: 5591584.11
YEAR: 1974
= 500'
N
EDR


INQUIRY #: 5591584.11
YEAR: 1968
= 500'
N
EDR


INQUIRY #: 5591584.11
YEAR: 1963
= 500'
N
EDR



INQUIRY #: 5591584.11

YEAR: 1956

= 500'

N

EDR


INQUIRY #: 5591584.11
YEAR: 1950
= 500'
N
EDR



INQUIRY #: 5591584.11

YEAR: 1948

= 500'

N

EDR



INQUIRY #: 5591584.11

YEAR: 1943

= 500'

N

EDR


INQUIRY #: 5591584.11
YEAR: 1939
= 500'
N
EDR

APPENDIX B

SELECTED PHOTOGRAPHS TAKEN DURING SITE WALK-THROUGH

APPENDIX B
SELECTED PHOTOGRAPHS TAKEN DURING SITE WALK-THROUGH
10 APRIL 2019



Photo 1: Drilling locations marked by others in Terra Bella Avenue on the south side of the Subject Property, looking toward the north



Photo 2: Drilling locations and 1155 Terra Bella Avenue, looking toward the south



Photo 3: Northern portion of the Subject Property, looking toward the north



Photo 4: Leaking transformer pad location on the Subject Property, looking toward the north



Photo 5: Volleyball court in the northern portion of the Subject Property, looking toward the north



Photo 6: Northern portion of the Subject Property, looking toward the northeast

APPENDIX B
SELECTED PHOTOGRAPHS TAKEN DURING SITE WALK-THROUGH
10 APRIL 2019

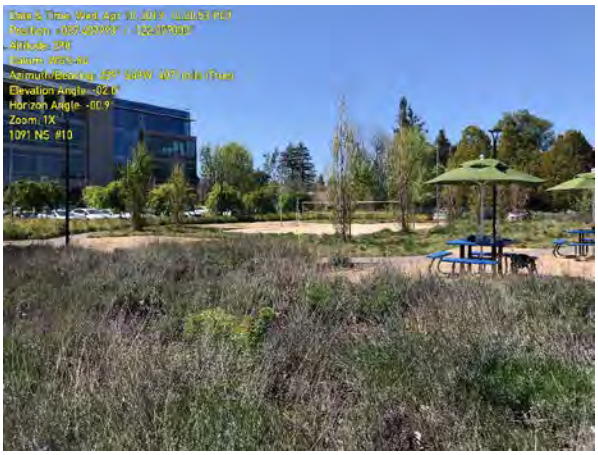

Photo 7: Volleyball court and seating area in the northern portion of the Subject Property, looking toward the southwest



Photo 8: Northern portion of the Subject Property and adjoining office building to the southwest, looking toward the west

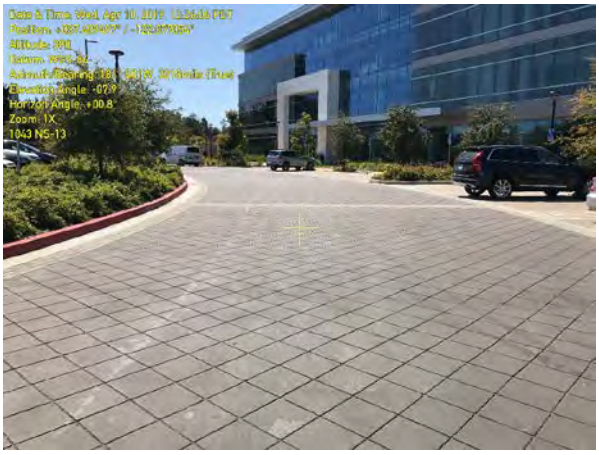

Photo 9: Central portion of the Subject Property, looking toward the adjoining office building to the south

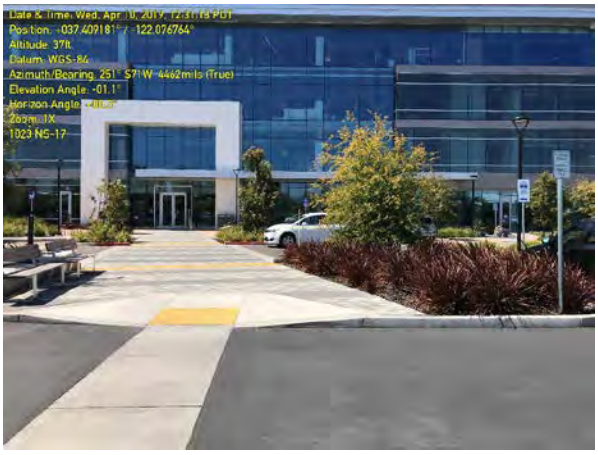

Photo 10: Adjoining office building to the west, view from the southern portion of the Subject Property

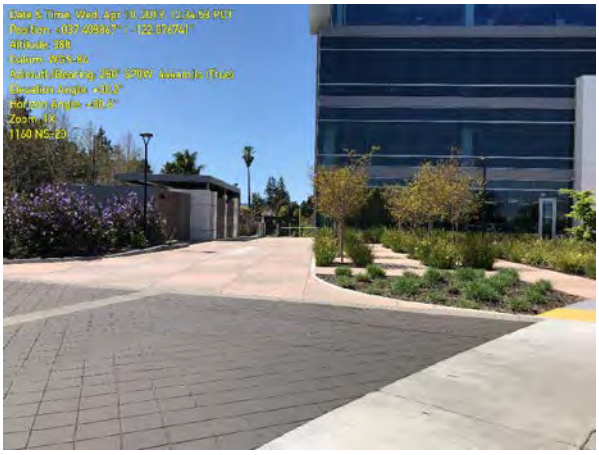

Photo 11: Storage or trash enclosure on the south side of the adjoining office building to the west



Photo 12: Trash enclosure for the adjoining office building to the west

APPENDIX B
SELECTED PHOTOGRAPHS TAKEN DURING SITE WALK-THROUGH
10 APRIL 2019



Photo 13: Containers in the trash enclosure area for the adjoining office building to the west

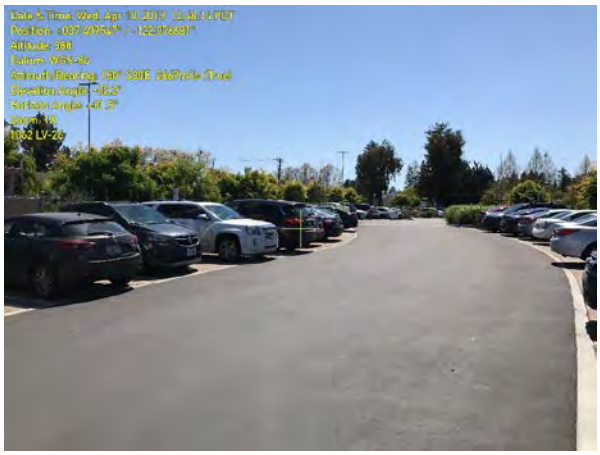

Photo 14: Southern portion of the Subject Property, looking toward the southeast



Photo 15: Verizon cell tower on the southern portion of the Subject Property, looking toward the east



Photo 16: Verizon cell tower enclosure on the southern portion of the Subject Property, looking toward the south



Photo 17: Labeling on the Verizon cell tower



Photo 18: Labeling on the Verizon cell tower

APPENDIX B
SELECTED PHOTOGRAPHS TAKEN DURING SITE WALK-THROUGH
10 APRIL 2019



Photo 19: Emergency generator and diesel tank for the Verizon cell tower



Photo 20: Southern portion of the Subject Property, looking toward the south



Photo 21: Parking and landscaped areas on the southern portion of the Subject Property, looking toward the west



Photo 22: Southern portion of the Subject Property, looking toward the north

APPENDIX C

EDR LIEN SEARCH REPORT

1001-1091 STERLIN RD & 1130-1170 TERRA BELLA AVE
1001-1091 N SHORELINE BLVD & 1062 LINDA VISTA AVE
MOUNTAIN VIEW, CA 94043

Inquiry Number: 5591584.7S
MARCH 15, 2019

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

1001-1091 STERLIN RD & 1130-1170 TERRA BELLA AVE
1001-1091 N SHORELINE BLVD & 1062 LINDA VISTA AVE
MOUNTAIN VIEW, CA 94043

RESEARCH SOURCE

Source 1: SANTA CLARA 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:	LH SHORELINE LP
Title received from:	CALVANO/CVP MOUNTAIN VIEW OWNER, LLC COMPANY
Date Executed:	03/15/2018
Date Recorded:	03/16/2018
Book:	NA
Page:	NA
Volume:	NA
Instrument#:	23889397
Docket:	NA
Land Record Comments:	NA
Miscellaneous Comments:	NA

Legal Description: LOT 1

Current Owner: LH SHORELINE LP, A DELAWARE LIMITED LIABILITY PARTNERSHIP

Property Identifiers: 153-15-032

Comments: MATTERS DISCLOSED IN THE ATTACHED DOCUMENT #23889397 FILED ON 03/16/2018

EDR Environmental Lien and AUL Search

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

If Found:

1st Party:	NA
2nd Party:	NA
Dated:	NA
Recorded:	NA
Book:	NA
Page:	NA
Docket:	NA
Volume:	NA
Instrument #:	NA
Comments:	NA
Miscellaneous:	NA

OTHER ACTIVITY AND USE LIMITATIONS (AULS)

Other AUL's: Found ☐ Not Found ☒

If Found:

1st Party:	NA
2nd Party:	NA
Dated:	NA
Recorded:	NA
Book:	NA
Page:	NA
Docket:	NA
Volume:	NA
Instrument #:	NA
Comments:	NA
Miscellaneous:	NA

EDR Environmental Lien and AUL Search

MISCELLANEOUS

Type of Instrument:	NA
First Party:	NA
Second Party:	NA
Date Executed:	NA
Date Recorded:	NA
Instrument #:	NA
Book:	NA
Page:	NA
Comments:	

DEED EXHIBIT

This document was electronically submitted to Santa Clara County for recording

23889397

Regina Alcomendras
Santa Clara County - Clerk-Recorder
03/16/2018 11:39 AM

Titles: 1 Pages: 7
Fees: $33.00
Tax: $747764.61
Total: $747797.61

RECORDING REQUESTED BY:
First American Title Insurance Company National Commercial Services

WHEN RECORDED MAIL DOCUMENT TO:
Gibson, Dunn & Crutcher LLP
555 Mission Street
San Francisco, CA 94105

Attn: Erin L. Rothfuss

Space Above This Line for Recorder's Use Only

A.P.N.: 153-15-032 and 153-15-033

File No.: NCS-880397-BOS1 (mj)

Property Address: 1001 North Shoreline Boulevard, Mountain View, CA

GRANT DEED
Title of Document

The undersigned declares that the document to which this page is affixed and made a part of is exempt from the fee imposed by the Affordable Housing & Job Act (SB2) (GC 27388.1)

(x) Recorded [concurrently] in connection with a transfer of real property subject to the imposition of Documentary Transfer Tax per GC 27388.1 (a) (2).

() Recorded [concurrently] in connection with a transfer of real property that is residential dwelling to an owner-occupier per GC 27388.1 (a) (2).

() Maximum fee of $225 has been reached per GC 27388.1 (a) (1).

() Not related to real property GC 27388.1 (a) (1).

() Transfer of real property subject to the imposition of Documentary Transfer Tax - GC 27388.1 (a)(2)

() Transfer of real property that is a residential dwelling to an owner-occupier - GC 27388.1 (a)(2)

Signature

3/15/18
Date

THIS PAGE ADDED TO PROVIDE EXEMPTION INFORMATION FOR THE
BUILDING HOMES AND JOBS ACT FEE
(SB-2; AFFORDABLE HOUSING FEE)
($3.00 Additional recording fee applies)

RECORDING REQUESTED BY
AND WHEN RECORDED MAIL TO:

Gibson, Dunn & Crutcher LLP
555 Mission Street
San Francisco, CA 94105
Attention: Erin L. Rothfuss

MAIL TAX STATEMENTS TO:

LH Shoreline LP
c/o Stockbridge Capital Group, LLC
4 Embarcadero Center, 33rd Floor
San Francisco, CA 94111
Attention: Controller

(Above Space For Recorder's Use Only)

APN/Parcel ID(s): 153-15-032 (Tract One) and 153-15-033 (Tract Two)

GRANT DEED

The Undersigned Grantor Declares: Documentary Transfer Tax: $ **$186,941.15**; City Transfer Tax: **$560,823.46**
☒ Computed on the consideration or full value of property conveyed, or
☐ Computed on the consideration or full value less value of liens and encumbrances remaining at time of sale
☐ unincorporated area; ☒ City of Mountain View; and

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, Calvano/CRP Mountain View Owner, L.L.C., a Delaware limited liability company ("**Grantor**"), does hereby GRANT to LH Shoreline LP, a Delaware limited partnership ("**Grantee**"), its entire interest in that certain real property in the City of Mountain View, County of Santa Clara, State of California, as more particularly described in **Exhibit "A"** attached hereto, together with all rights, interests, privileges, easements and appurtenances thereto and all right, title and interest of Grantor in, to and under adjoining streets, rights of way and easements.

Mail tax statements as directed above.

SUBJECT TO: Existing taxes, bonds, assessments, covenants, conditions, restrictions, rights of way and easements of record.

IN WITNESS WHEREOF, Grantor has caused this instrument to be executed as of March 15, 2018.

Grantor:

Calvano/CRP Mountain View Owner, L.L.C., a Delaware limited liability company

By: Calvano/CRP Mountain View Venture, L.L.C., a Delaware limited liability company, its sole member

By: CRP Mountain View Owner, L.L.C., a Delaware limited liability company, its managing member

By: David A. Kingery
Name: David A. Kingery
Its: Vice President

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
) §
County of Contra Costa)

On 3/13/2018, before me, Matthew Lee Oliver a Notary Public, personally appeared David A. Kingery who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct

WITNESS my hand and official seal.

Signature of Notary

MATTHEW LEE OLIVER
Notary Public – California
Contra Costa County
Commission # 2218735
My Comm. Expires Oct 19, 2021

(Affix seal here)

EXHIBIT A TO GRANT DEED

Legal Description

TRACT ONE:

PARCEL A:

ALL OF PARCEL 1, AS SHOWN ON THE PARCEL MAP LOT MERGER FILED FOR RECORD IN THE OFFICE OF THE RECORDER OF THE COUNTY OF SANTA CLARA, STATE OF CALIFORNIA, ON MAY 11, 2016 IN BOOK 892 OF MAPS, PAGES 14 THROUGH 20.

PARCEL B:

A PRIVATE NON-EXCLUSIVE EASEMENT FOR THE INSTALLATION, MAINTENANCE AND REPAIR OF UTILITIES, UNDER, UPON, OVER AND ACROSS THAT CERTAIN "UTILITY EASEMENT AREA" AS DESCRIBED IN THAT CERTAIN UTILITY EASEMENT AGREEMENT RECORDED MAY 14, 2004 AS INSTRUMENT NO. 17789791, OFFICIAL RECORDS, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
BEGINNING AT THE MOST EASTERLY CORNER OF SAID PARCEL B; THENCE FROM SAID POINT OF BEGINNING ALONG THE GENERAL EASTERLY LINE OF SAID PARCEL B THE FOLLOWING COURSES: NORTH 88° 18' 09" WEST 38.736 METERS; ALONG A TANGENT CURVE TO THE LEFT WITH A RADIUS OF 17.069 METERS, THROUGH A CENTRAL ANGLE OF 22° 38' 52" FOR AN ARC LENGTH OF 6.747 METERS; THENCE LEAVING SAID GENERAL EASTERLY LINE NORTH 63° 42' 25" WEST 12.996 METERS TO THE TRUE POINT OF BEGINNING FOR THIS DESCRIPTION; THENCE FROM SAID TRUE POINT OF BEGINNING NORTH 63° 42' 25" WEST 46.271 METERS; THENCE NORTH 63° 07' 58" WEST 17.931 METERS; THENCE FROM A TANGENT BEARING OF SOUTH 79° 00' 51" WEST ALONG A CURVE TO THE LEFT WITH A RADIUS OF 39.397 METERS, THROUGH A CENTRAL ANGLE OF 1° 42' 58" FOR AN ARC LENGTH OF 1.180 METERS TO A POINT OF COMPOUND CURVATURE; THENCE ALONG A TANGENT CURVE TO THE LEFT WITH A RADIUS OF 62.045 METERS, THROUGH A CENTRAL ANGLE OF 8° 18' 56" FOR AN ARC LENGTH OF 9.005 METERS; THENCE SOUTH 68° 58' 57" WEST 24.371 METERS; THENCE FROM A TANGENT BEARING OF SOUTH 29° 36' 35" WEST ALONG A CURVE TO THE RIGHT WITH A RADIUS OF 1.981 METERS, THROUGH A CENTRAL ANGLE OF 39° 22' 22" FOR AN ARC LENGTH OF 1.361 METERS; THENCE SOUTH 68° 58' 57" WEST 3.063 METERS TO A POINT IN THE WESTERLY LINE OF SAID PARCEL B; THENCE ALONG SAID WESTERLY LINE SOUTH 1° 11' 32" WEST 8.074 METERS; THENCE LEAVING SAID WESTERLY LINE NORTH 68° 58' 57" EAST 25.603 METERS; THENCE ALONG A TANGENT CURVE TO THE RIGHT WITH A RADIUS OF 45.718 METERS, THROUGH A CENTRAL ANGLE OF 20° 12' 11" FOR AN ARC LENGTH OF 16.121 METERS TO THE INTERSECTION THEREOF WITH A LINE PARALLEL WITH AND DISTANCE 7.000 METERS SOUTHWESTERLY, MEASURED AT RIGHT ANGLES FROM ABOVE SAID COURSE WITH A LENGTH OF 17.931 METERS; THENCE ALONG SAID PARALLEL LINE AND A LINE PARALLEL WITH AND DISTANT 7.000 METERS SOUTHWESTERLY, MEASURED AT RIGHT ANGLES, FROM ABOVE SAID COURSE WITH A LENGTH OF 46.271 METERS THE FOLLOWING TWO COURSES: SOUTH 63° 07' 58" EAST 10.917 METERS AND SOUTH 63° 42' 24" EAST 48.577 METERS; THENCE LEAVING SAID PARALLEL LINE NORTH 8° 35' 03" EAST 7.348 METERS TO THE TRUE POINT OF BEGINNING.

PARCEL C:

A PRIVATE NON-EXCLUSIVE EASEMENT FOR THE INSTALLATION, MAINTENANCE AND REPAIR OF UTILITIES, UNDER, UPON, OVER AND ACROSS THAT CERTAIN "STREET EASEMENT AREA" AS DESCRIBED IN THAT CERTAIN UTILITY EASEMENT AGREEMENT RECORDED MAY 14, 2004

AS INSTRUMENT NO. 17789791, OFFICIAL RECORDS, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE MOST EASTERLY CORNER OF SAID PARCEL B; THENCE FROM SAID POINT OF BEGINNING ALONG THE GENERAL EASTERLY LINE OF SAID PARCEL B THE FOLLOWING COURSES: NORTH 88° 18' 09" WEST 38.736 METERS; ALONG A TANGENT CURVE TO THE LEFT WITH A RADIUS OF 17.069 METERS, THROUGH A CENTRAL ANGLE OF 22° 38' 52" FOR AN ARC LENGTH OF 6.747 METERS TO THE TRUE POINT OF BEGINNING FOR THIS DESCRIPTION; THENCE FROM SAID TRUE POINT OF BEGINNING ALONG SAID GENERAL EASTERLY LINE THE FOLLOWING TWO COURSES: FROM A TANGENT BEARING SOUTH 69° 02' 59" WEST, ALONG A CURVE TO THE LEFT WITH A RADIUS OF 17.069 METERS, THROUGH A CENTRAL ANGLE OF 67° 51' 04" FOR A LENGTH OF 20.213 METERS AND SOUTH 1° 11' 54" WEST 5.673 METERS; THENCE LEAVING SAID GENERAL EASTERLY LINE, FROM A TANGENT BEARING OF NORTH 21° 56' 33" WEST ALONG A CURVE TO THE LEFT WITH A RADIUS OF 18.500 METERS, THROUGH A CENTRAL ANGLE OF 9° 24' 30" FOR AN ARC LENGTH OF 3.038 METERS TO A POINT OF REVERSE CURVATURE; THENCE ALONG A TANGENT CURVE TO THE RIGHT WITH A RADIUS OF 12.200 METERS, THROUGH A CENTRAL ANGLE OF 39° 56' 06" FOR AN ARC LENGTH OF 8.503 METERS; THENCE NORTH 8° 35' 03" EAST 16.314 METERS; THENCE SOUTH 63° 42' 25" EAST 12.996 METERS TO THE TRUE POINT OF BEGINNING.

PARCEL D:

A PRIVATE NON-EXCLUSIVE EASEMENT FOR INGRESS AND EGRESS, UNDER, UPON, OVER AND ACROSS THAT CERTAIN "INGRESS-EGRESS EASEMENT" AS DESCRIBED IN THAT CERTAIN EASEMENT AGREEMENT RECORDED MAY 14, 2004 AS INSTRUMENT NO. 17789792, OFFICIAL RECORDS, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE EASTERLY LINE OF SAID PARCEL B; SAID POINT BEARS, ALONG SAID EASTERLY LINE, NORTH 1° 11' 54" EAST 7.297 METERS FROM THE SOUTHEAST CORNER OF SAID PARCEL B; THENCE FROM SAID POINT OF BEGINNING, ALONG SAID EASTERLY LINE, NORTH 1° 11' 54" EAST 7.315 METERS; THENCE LEAVING SAID EASTERLY LINE NORTH 88° 46' 47" WEST 79.037 METERS; THENCE ALONG A TANGENT CURVE TO THE RIGHT WITH A RADIUS OF 8.000 METERS, THROUGH A CENTRAL ANGLE OF 90° 02' 27" FOR AN ARC LENGTH OF 12.572 METERS; THENCE NORTH 1° 15' 40" EAST 45.723 METERS; THENCE SOUTH 66° 38' 18" WEST 9.137 METERS TO A POINT IN THE WESTERLY LINE OF SAID PARCEL B; THENCE ALONG SAID WESTERLY LINE SOUTH 1° 11' 32" WEST 22.678 METERS TO A WESTERLY CORNER OF SAID PARCEL B; THENCE SOUTH 88° 48' 28" EAST 0.964 METERS TO A POINT IN A LINE PARALLEL WITH AND DISTANT 7.315 METERS WESTERLY, MEASURED AT RIGHT ANGLES, FROM ABOVE SAID COURSE WITH A LENGTH OF 45.723 METERS; THENCE ALONG SAID PARCEL LINE SOUTH 1° 15' 40" WEST 31.563 METERS; THENCE LEAVING SAID PARALLEL LINE, ALONG A TANGENT CURVE TO THE LEFT WITH A RADIUS OF 3.000 METERS, THROUGH A CENTRAL ANGLE OF 90° 02' 27" FOR AN ARC LENGTH OF 4.715 METERS TO A POINT IN A LINE PARALLEL WITH AND DISTANT 7.315 METERS SOUTHERLY, MEASURED AT RIGHT ANGLES, FROM ABOVE SAID COURSE WITH A LENGTH OF 79.037 METERS; THENCE ALONG SAID PARALLEL LINE SOUTH 88° 46' 47" EAST 91.363 METERS TO THE POINT OF BEGINNING.

TRACT TWO:

BEGINNING AT A POINT ON THE NORTHWESTERLY LINE OF PARCEL 2 AS DESCRIBED IN THE DIRECTOR'S DEED (STATE PARCEL NO. 11987-DD) FROM THE STATE OF CALIFORNIA TO GEORGE T. HEMMETER AND ANNE B. HEMMETER, HIS WIFE, AS JOINT TENANTS RECORDED JANUARY 17, 1961 IN VOLUME 5043 OF OFFICIAL RECORDS, PAGE 683, SANTA CLARA COUNTY

RECORDS, SAID POINT BEING AT THE NORTHEASTERLY TERMINUS OF THE COURSE DESCRIBED IN SAID PARCEL 2 AS "NORTH 66° 37' 26" EAST 325.40 FEET"; THENCE FROM SAID POINT OF BEGINNING, ALONG SAID NORTHWESTERLY LINE, FROM A TANGENT BEARING OF NORTH 66° 38' 18" EAST ALONG A CURVE TO THE RIGHT WITH A RADIUS OF 200.00 FEET, THROUGH A CENTRAL ANGLE OF 1° 09' 44", FOR AN ARC LENGTH OF 4.06 FEET; THENCE LEAVING SAID NORTHWESTERLY LINE, FROM A TANGENT BEARING OF NORTH 67° 53' 44" WEST ALONG A CURVE TO THE LEFT WITH A RADIUS OF 71.18 FEET, THROUGH A CENTRAL ANGLE OF 31° 30' 51", FOR AN ARC LENGTH OF 39.15 FEET; THENCE SOUTH 80° 35' 25" WEST 203.11 FEET; THENCE ALONG A TANGENT CURVE TO THE LEFT WITH A RADIUS OF 200.00 FEET, THROUGH A CENTRAL ANGLE OF 67° 56' 09", FOR AN ARC LENGTH OF 237.14 FEET; THENCE SOUTH 12° 39' 16" WEST 66.01 FEET TO A POINT IN THE NORTHWESTERLY LINE OF PARCEL 1 AS DESCRIBED IN SAID DIRECTOR'S DEED; THENCE ALONG LAST SAID NORTHWESTERLY LINE, THE SOUTHEASTERLY LINE OF PARCEL 2 AS DESCRIBED IN SAID STATE PARCEL NO. 11986 AND SAID NORTHWESTERLY LINE OF SAID PARCEL 2 AS DESCRIBED IN SAID DIRECTOR'S DEED, FROM A TANGENT BEARING OF NORTH 12° 39' 16" EAST ALONG A CURVE TO THE RIGHT WITH A RADIUS OF 150.00 FEET, THROUGH A CENTRAL ANGLE OF 53° 59' 02", FOR AN ARC LENGTH OF 141.33 FEET: AND NORTH 66° 38' 18" EAST 354.11 FEET TO THE POINT OF BEGINNING.

APN(s): 153-15-032 (Tract One) and 153-15-033 (Tract Two)

APPENDIX D

OTHER SUPPORTING DOCUMENTATION

March 16, 2011

Calvano Development
900 Bush Street, Penthouse 1
San Francisco, CA 94109

Attn: Mr. Mark Calvano

RE: Phase I and II Environmental Site Assessment (ESA) Report
1005 & 1015 North Shoreline Blvd. and 1150 Terra Bella Ave.
Mountain View, California

Dear Mr. Calvano:

Enclosed is the Phase I and II ESA Report for the above referenced property. Please review this Report, especially the Site Reconnaissance and Conclusion sections. Our investigation has revealed the following findings in connection with the site.

- A petroleum release occurred on the adjacent and upgradient former Texaco at 975 North Shoreline. Three of the monitoring wells for this release are on the subject property. MW-22G is located between the Fiesta Del Mar restaurant building and North Shoreline Boulevard on 1005 North Shoreline. MW-22E is located south of the building at 1015 North Shoreline and MW-22F is located on the eastern portion of the Fiesta Del Mar parking area.

  In the most recent groundwater-monitoring event for which reports were available (first quarter 2010), contamination was detected in MW-22E, which is on the subject site just south of the building at 1015 North Shoreline. Specifically, TPH-GRO was detected at 9,900 ug/L, benzene was detected at a concentration of 130 ug/L, toluene was detected at a concentration of 4.2 ug/L. ethyl benzene was detected at a concentration of 11 ug/L, and MTBE was detected at a concentration of 1 ug/L.

Recent air sampling at 1015 North Shoreline indicates that there does not appear to be significant vapor intrusion into the building as a result of the impacted groundwater at the site.

This release has impacted the subject site. However, the source of the release is not on the property and the responsible party has been identified. Furthermore, the release is in public comment period for the proposed site closure and is expected to be closed within the next few months. Texaco also issued an indemnification to the current property owners, which is transferable to future property owners (the Indemnity agreement is included in Appendix K).

This release is a Recognized Environmental Condition (REC) as defined by ASTM since it has impacted the subject site. However, given the current status moving toward closure, the fact a responsible party has been identified and is actively addressing the release, and the indemnification agreement, this issue appears to have been sufficiently addressed, and no additional investigation is recommended.

If the release is closed, the monitoring wells, including those on the subject site, should be abandoned in accordance with applicable regulations. The responsible party for the release (in this case Texaco) is typically the well owner and financially responsible for sealing the wells.

- The Shippen Property at 1175 Terra Bella is a closed release south of the site. Gasoline contamination was discovered in 1998 and the release was closed in 2001. Although the release is closed, contamination remained on the release property at the time of closure. In addition to several borings on the release property, one soil boring for the investigation was advanced on the subject property at the southwest corner of 1150 Terra Bella, the corner of the subject site closest to the release. Low levels of petroleum contamination (below regulatory screening thresholds) were detected in the groundwater sample collected from this boring. Given the investigation results and the subsequent site closure, this release does not appear to have significantly impacted the subject site. It is classified as a Historical Recognized Environmental Condition (HREC) since it is closed and is no additional investigation, monitoring, or remediation is required.

- There is an open drinking water well at the 1150 Terra Bella property. According to Mr. Maleti, the well is no longer used. Santa Clara Valley Water District regulations state wells that are not used for more than one year should be appropriately sealed. We recommend that the well be properly sealed by a

licensed well driller in accordance with Santa Clara Valley Water District requirements. The well is not a REC but it could potentially be a conduit for contamination to enter or migrate through the groundwater.

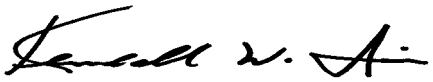
- No volatile organic compounds were detected in the four surface soil sampling in the fenced enclosure behind 1015 Shoreline. No additional sampling or analysis is recommended in this area.

- Based on information reviewed, the buildings were constructed prior to 1980. Based on the age of the buildings, there is a potential that asbestos containing materials and/or lead-based paint have been used at the site. If it has not already been done, a full survey should be completed prior to any demolition or renovation at the site. This is not a REC as defined by the ASTM standard.

No other investigation is recommended.

Thank you for choosing ERS to perform this project. If you have any questions, comments or concerns, please contact me at (408) 496-0801.

Sincerely,



Kendall W. Price, CEG, REA
Regional Manager/Principal Consultant

PHASE I AND II ENVIRONMENTAL SITE ASSESSMENT

1005 & 1015 North Shoreline Blvd.
and 1150 Terra Bella Ave.
Mountain View, California

March 16, 2011

Prepared For:

Calvano Development
900 Bush Street, Penthouse 1
San Francisco, CA 94109

Environmental Risk Specialties Corporation

EXECUTIVE SUMMARY

Consultant:	Environmental Risk Specialties Corporation (ERS)
Subject Property:	1005 & 1015 North Shoreline Blvd. and 1150 Terra Bella Ave. Mountain View, California
Client:	Calvano Development 900 Bush Street, Penthouse 1 San Francisco, California 94109
Location:	The site addresses are 1005 & 1015 North Shoreline Blvd. and 1150 Terra Bella Ave., City of Mountain View, Santa Clara County, California. The Santa Clara County Assessor Parcel Numbers (APNs) are 153-15-015 (1005 North Shoreline), 153-15-016 (1015 North Shoreline), and 153-15-022 (1150 Terra Bella).
Current Use:	The site is occupied by the Fiesta Del Mar restaurant at 1005 North Shoreline, a former residence used for Fiesta Del Mar restaurant storage at 1015 North Shoreline, and a residence and open land at 1150 Terra Bella Avenue.
Current Owner:	Annette Kavanaugh, Marco J Bertozzi Jr. & Robert S Bertozzi Trustees
Site Characteristics:	The site consists of three separate adjoining parcels. Parcel 153-15-015 is 1005 North Shoreline and is occupied by the Fiesta Del Mar Restaurant. It can be accessed from both North Shoreline and Terra Bella. Parcel 153-15-016 is at 1015 North Shoreline and contains a former residence that is used by Fiesta Del Mar for storage. The western portion of this parcel is used as a parking lot and unpaved open area that was formerly storage. Parcel 153-15-022 is at 1150 Terra Bella and contains a residence, a garage, a green house, several storage sheds, and open areas formerly used for storage.

Vicinity Characteristics: The property is in a mixed-use area within the City of Mountain View, California.

Purpose: This Phase I Environmental Site Assessment (ESA) was performed to (1) identify any recognized environmental conditions (RECs), and (2) permit a user to satisfy one of the requirements to qualify for the innocent landowner defense under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) liability protection (42 U.S.C. §9601). All components of this ESA were performed or overseen by Environmental Professionals as defined in the All Appropriate Inquiries (AAI) Standard and the American Society for Testing and Materials (ASTM) E 1527-05.

Conclusions:

Our investigation has revealed the following findings in connection with the site.

- A petroleum release occurred on the adjacent and upgradient former Texaco at 975 North Shoreline. Three of the monitoring wells for this release are on the subject property. MW-22G is located between the Fiesta Del Mar restaurant building and North Shoreline Boulevard on 1005 North Shoreline. MW-22E is located south of the building at 1015 North Shoreline and MW-22F is located on the eastern portion of the Fiesta Del Mar parking area.

  In the most recent groundwater-monitoring event for which reports were available (first quarter 2010), contamination was detected in MW-22E, which is on the subject site just south of the building at 1015 North Shoreline. Specifically, TPH-GRO was detected at 9,900 ug/L, benzene was detected at a concentration of 130 ug/L, toluene was detected at a concentration of 4.2 ug/L. ethyl benzene was detected at a concentration of 11 ug/L, and MTBE was detected at a concentration of 1 ug/L.

  Recent air sampling at 1015 North Shoreline indicates that there does not appear to be significant vapor intrusion into the building as a result of the impacted groundwater at the site.

This release has impacted the subject site. However, the source of the release is not on the property and the responsible party has been identified. Furthermore, the release is in public comment period for the proposed site closure and is expected to be closed within the next few months. Texaco also issued an indemnification to the current property owners, which is transferable to future property owners (the Indemnity agreement is included in Appendix K).

This release is a Recognized Environmental Condition (REC) as defined by ASTM since it has impacted the subject site. However, given the current status moving toward closure, the fact a responsible party has been identified and is actively addressing the release, and the indemnification agreement, this issue appears to have been sufficiently addressed, and no additional investigation is recommended.

If the release is closed, the monitoring wells, including those on the subject site, should be abandoned in accordance with applicable regulations. The responsible party for the release (in this case Texaco) is typically the well owner and financially responsible for sealing the wells.

- The Shippen Property at 1175 Terra Bella is a closed release south of the site. Gasoline contamination was discovered in 1998 and the release was closed in 2001. Although the release is closed, contamination remained on the release property at the time of closure. In addition to several borings on the release property, one soil boring for the investigation was advanced on the subject property at the southwest corner of 1150 Terra Bella, the corner of the subject site closest to the release. Low levels of petroleum contamination (below regulatory screening thresholds) were detected in the groundwater sample collected from this boring. Given the investigation results and the subsequent site closure, this release does not appear to have significantly impacted the subject site. It is classified as a Historical Recognized Environmental Condition (HREC) since it is closed and is no additional investigation, monitoring, or remediation is required.

- There is an open drinking water well at the 1150 Terra Bella property. According to Mr. Maleti, the well is no longer used. Santa Clara Valley Water District regulations state wells that are not used for more than one year should be

appropriately sealed. We recommend that the well be properly sealed by a licensed well driller in accordance with Santa Clara Valley Water District requirements. The well is not a REC but it could potentially be a conduit for contamination to enter or migrate through the groundwater.

- No volatile organic compounds were detected in the surface soil sampling in the fenced enclosure behind 1015 Shoreline. No additional sampling or analysis is recommended in this area.

- Based on information reviewed, the buildings were constructed prior to 1980. Based on the age of the buildings, there is a potential that asbestos containing materials and/or lead-based paint have been used at the site. If it has not already been done, a full survey should be completed prior to any demolition or renovation at the site. This is not a REC as defined by the ASTM standard.

No other investigation is recommended.

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1.0 INTRODUCTION

On behalf of Calvano Development (hereinafter referred to as the "Client"), Environmental Risk Specialties Corporation (ERS), performed a Phase I and II Environmental Site Assessment (ESA) of the property located at 1005 & 1015 North Shoreline Blvd. and 1150 Terra Bella Ave., City of Mountain View, Santa Clara County, California (hereinafter referred to as the "subject property").

1.1 Purpose

This ESA was performed to provide a record of the site conditions at the subject property and to evaluate what, if any, recognized environmental conditions exist at this site. Additional goals of this ESA are to identify recognized environmental conditions (RECs) from current and historical practices on the subject property and surrounding area and to assist the Client to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations from Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) liability.

1.2 Detailed Scope of Services

The following tasks were performed in accordance with the Scope of Services:

- Visual site inspection of the subject property to investigate for recognized environmental conditions. ERS is not responsible for inspecting areas covered by parked vehicles, overgrown vegetation, and other obstacles preventing access.

- A historical review of the use and improvements of the subject property through a review of aerial photographs, historical topographic maps, city directories, fire insurance maps, title reports, and/or building department records.

- A review of available geologic and hydrogeologic literature concerning the property and surrounding area.

- Interviews of persons familiar with the history of the subject property, including key site managers, owners, tenants, past tenants, and/or previous owners.

- Review of appropriate federal, state, and local regulatory agencies to reveal known hazardous wastes sites or significant leaks or spills of hazardous materials that may have occurred at the subject property and immediate vicinity.

- Interviews with applicable local agencies familiar with the areas in the vicinity of the subject property such as local fire departments, health departments, Regional Water Quality Control Board, and/or other local government agencies.

- Collecting soil samples from the rear yard at 1015 North Shoreline and analyzing the samples for volatile organic compounds.

1.3 Significant Assumptions

No significant assumptions were made during this Phase I and II ESA.

1.4 Limitations and Exceptions of Agreement

ERS has performed the services for this project in accordance with our proposal, and within the current standards of the American Society for Testing and Materials (ASTM 1527-05) for Phase I Environmental Site Assessments and the standards for All Appropriate Inquiries (AAI) approved by the Federal Environmental Protection Agency. Except for the representations set forth in this Phase I ESA, no other representations, guarantees, or warrantees are either expressed or implied. A record search was limited to reasonably ascertainable information that could be obtained within 20 calendar days.

The review was limited to a search for RECs at the subject property. The term REC means the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimus* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

There is no investigation that is thorough enough to preclude the presence of hazardous materials that presently, or in the future, may be considered hazardous at the site. Because

regulatory evaluation criteria are constantly changing, concentrations of contaminants presently considered low may, in the future, fall under more stringent regulatory standards that require remediation.

The Site Reconnaissance was limited to visual observation of surface conditions at the subject property. Interviews with public agency personnel were conducted. Reasonably ascertainable information was reviewed. This approach reflects current ASTM standards and AAI regulations.

Where there is a conflict between the environmental database and ERS's actual knowledge with regard to the distance and direction from the subject property of sites listed on the database, information obtained by ERS from the site reconnaissance was used. Whenever feasible, ERS notes such conflict within the text of the report.

This ESA addresses recognized environmental conditions at the subject property. However, certain conditions, such as those listed below may not be revealed:

1) naturally occurring toxic materials in subsurface soils, rocks, or water, or toxicity of onsite flora;
2) toxicity of substances common in current habitable environments, such as stored household products, building materials, and consumables;
3) biological pathogens;
4) contaminant plume below the depths sampled or from remote source;
5) contaminants or contaminant concentrations that do not violate present regulatory standards, but may violate future standards; and
6) unknown site contamination, such as illegal dumping and/or accidental spillage which may occur following the site visit by ERS.

Opinions and judgments expressed herein, which are based on our understanding and interpretation of current regulatory standards, should not be construed as legal opinions. This document and the information contained herein have been prepared solely for the Client and any reliance on this report by third parties not authorized by the Client shall be at such party's sole risk.

Conducting an AAI Phase I ESA alone does not provide a landowner with protection against CERCLA liability. Landowners who want to qualify as bona fide prospective purchasers or contiguous property owner must comply with all of the statutory requirements identified in CERCLA Section 107(r) and 107(q).

1.5 Special Terms and Conditions

No special terms or conditions were agreed upon for conducting this Phase I ESA.

1.6 User Reliance

As specified in ASTM E 1527-05, Sections 7.5.2 and 7.5.2.1, ERS is not required to independently verify the information provided by the User (Client), obtained from interviews, previous environmental reports, and/or reviewed documents during records review.

2.0 SITE DESCRIPTION

2.1 Location and Legal Description

The site addresses are 1005 & 1015 North Shoreline Blvd. and 1150 Terra Bella Ave., City of Mountain View, Santa Clara County, California. The Santa Clara County Assessor Parcel Numbers (APNs) are 153-15-015 (1005 North Shoreline), 153-15-016 (1015 North Shoreline), and 153-15-022 (1150 Terra Bella. The full legal description is included with the title and lien search report in Appendix J.

2.2 Site and Vicinity General Characteristics

The property is in a mixed-use area. Adjoining properties are residential, light industrial, and commercial.

2.3 Current and Proposed Use of the Property

The site is occupied by the Fiesta Del Mar restaurant at 1005 North Shoreline, a former residence used for Fiesta Del Mar restaurant storage at 1015 North Shoreline, and a residence and open land at 1150 Terra Bella Avenue.

No information on the proposed use of the property was provided to ERS.

2.4 Description of Structures, Road, and Other Improvements

The site consists of three separate adjoining parcels. Parcel 153-15-015 is 1005 North Shoreline and is occupied by the Fiesta Del Mar Restaurant. It can be accessed from both North Shoreline and Terra Bella. Parcel 153-15-016 is at 1015 North Shoreline and contains a former residence that is used by Fiesta Del Mar for storage. The western portion of this parcel is used as a parking lot and unpaved open area that was formerly storage. Parcel 153-15-022 is at 1150 Terra Bella and contains a residence, a garage, a green house, several storage sheds, and open areas formerly used for storage.

The subject property is connected to the Mountain View municipal water and sanitary and storm sewer systems.

2.5 Current Uses of the Adjoining Properties

The property is in a mixed-use area.

3.0 USER PROVIDED INFORMATION

3.1 Title Records

An Environmental Liens Search was performed by EDR as a part of this Phase I ESA. The lien search, including the most recent grant deeds, is included in Appendix J. No additional title information was provided by the user.

3.2 Environmental Liens or Activity and Use Limitations

The Environmental Professional is required to search for Activity and Use Limitations (AULs) if such records are available in *"publicly available lists or registries."* Typical AULs include land use restrictions (LURs), institutional controls (ICs), and Engineering Controls (ECs). Typical ICs include: 1) governmental controls such as zoning; 2) proprietary controls such as covenants or easements; 3) enforcement documents such as orders or consent decrees; and 4) information devices such as land record or deed notices. Typical ECs include: 1) passive measures such as vapor barriers and setbacks; 2) active measures such as remediation systems; and 3) monitoring of passive and/or active measures. According to 40 CFR Part 312.26 (b)(7), ICs are to be investigated on the subject property

and according to 40 CFR Part 312.26 (b)(6) and (c)(2)(ii), ECs are to be reviewed to a 0.5 mile radius of the subject property. ASTM 1527-05 recommends that ECs be reviewed only for the subject property.

An Environmental Liens Search was performed for the subject property. The lien search report is included as Appendix J. The Environmental Liens Search did not report any environmental liens or other activity use limitations (AULs) associated with the subject property.

3.3 Specialized Knowledge

ERS was informed that the property had been impacted by a release at a former Texaco filling station at 975 North Shoreline (formerly known as 975 Stierlin Road). An indemnity agreement signed by Texaco is included in Appendix K. Please refer to section 4.1.2 for additional information on this release.

3.4 Commonly Known or Reasonably Ascertainable Information

ERS did not discover any other commonly known or reasonable ascertainable information associated with the subject property or the area in the vicinity of the subject property.

3.5 Valuation Reduction for Environmental Issues

ERS was not provided with purchase price information.

3.6 Owner, Property Manager, and Occupant Information

According to the title provided by EDR, the current owner of the subject property is Annette Kavanaugh, Marco J Bertozzi Jr. & Robert S Bertozzi Trustees, who acquired it from First American Title Company in October 2007. According to Mr. Sal Maleti, their cousin and the broker representing the property, these are siblings who inherited the property, which has been in their family for several decades.

The subject site is currently occupied by the Fiesta Del Mar restaurant at 1005 North Shoreline, which also uses the former residence at 1015 North Shoreline for storage. The property at 1150 Terra Bella is a residence.

The property owners manage the property.

3.7 Reason for Performing the Phase I ESA

ERS has performed this Phase I ESA for a prospective property sale.

3.8 Other

ERS was provided with no additional information or previous reports for the subject site.

4.0 RECORDS REVIEW

Table 1, Records Review, located below lists the government environmental agency databases ERS reviewed. Shaded cells indicate that, in accordance with ASTM 1527-05, the Environmental Database was not searched to the corresponding distance. The database obtained from Environmental Data Resources, Inc. (EDR) is included as Appendix C. When locations and distances reported by EDR were observed to be incorrect, ERS amended the information to provide a more accurate assessment.

ERS also requested information from the Mountain View Fire Department, the Santa Clara County Environmental Health Department, the Santa Clara Valley Water District, the San Francisco Bay Regional Water Quality Control Board, and the California Department of Toxic Substance Control Envirostor database.

TABLE 1: RECORDS REVIEW

Environmental Database	*Subject Site*	*Within 1/8 mile*	*1/8 to 1/4 mile*	*1/4 to 1/2 mile*	*1/2 to 1 mile*	*Total*
National Priority List (NPL)	No	2	0	0	4	6
Proposed NPL	No	0	0	0	0	0
Delisted NPL	No	0	0	0	0	0
NPL Liens	No					
CERCLIS	No	2	0	0		2
CERCLIS Sites/No Further Remedial Action Planned (NFRAP) Sites	No	0	1	0		1

TABLE 1: RECORDS REVIEW						
Environmental Database	*Subject Site*	*Within 1/8 mile*	*1/8 to 1/4 mile*	*1/4 to 1/2 mile*	*1/2 to 1 mile*	*Total*
RCRA Corrective Action Sites (CORRACTS)	No	2	0	0	0	2
RCRA Treatment, Storage and Disposal Facilities (TSDF)	No	0	0	0		0
RCRA Large Quantity Generators	No	0	2			2
RCRA Small Quantity Generators	No	3	13			16
RCRA CESQG	No	0	0			0
US Engineering Controls	No	2	0	0		2
US Institutional Controls	No	0	0	0		0
Emergency Response Notification System (ERNS) Database	No					0
RESPONSE	No	0	0	1	2	3
ENVIROSTOR	No	0	5	1	11	17
SWF/LF (Landfills)	No	0	0	0		0
Leaking Underground Storage Tank (LUST) Database	No	2	5	14		21
SLIC	No	0	4	5		9
HIST LUST	No	2	4	12		18
Indian LUST	No	0	0	0		0
Underground Storage Tank Database	No	0	3			3
Aboveground Storage Tank Database	No	0	1			1
Indian UST	No	0	0			0
FEMA UST	No	0	0			0
VCP	No	0	0	0		0
Indian VCP	No	0	0	0		0
US Brownfields	No	0	0	0		0
WMUDS/SWAT	No	0	0	0		0

TABLE 1: RECORDS REVIEW						
Environmental Database	*Subject Site*	*Within 1/8 mile*	*1/8 to 1/4 mile*	*1/4 to 1/2 mile*	*1/2 to 1 mile*	*Total*
SWRCY	No	0	0	1		1
HIST Cal-Sites	No	0	2	1	4	7
Toxic Pits	No	0	0	0	0	0
CA FID UST	No	1	5			6
HIST UST	No	1	8			9
SWEEPS UST	No	2	5			7
DEED	No	0	0			0
HMIRS	No					0
California Hazardous Materials Information Reporting System (CHMIRS)	No					0
RCRA-NonGen	No	2	2			4
TRIS	No					0
TSCA	No					0
FTTS	No					0
HIST FTTS	No					0
NPDES	No					0
Cortese	No	0	0	0		0
HIST Cortese	No	3	6	15		24
Notify 65	No	0	1	0	1	1
Drycleaners	No	0	0			0
HAZNET	No					0
EMI	No					0

4.1 Standard Environmental Record Sources

4.1.1 Subject Site

The subject site address was not identified on any of the searched databases.

4.1.2 Offsite Listings

ERS reviewed files for nearby releases on the Geotracker, Envirostor, and Santa Clara County Environmental Health Department websites. Based on the documents reviewed, groundwater appears to be 5-15 feet below ground surface with a general regional gradient to the north. Based on the presumed northerly groundwater flow direction, offsite listings that are adjacent to or south of the subject site have the greatest potential to impact the subject site.

- *Texaco (CVX#21-1179) at 975 North Shoreline - listed on the LUST, HIST LUST, HIST CORTESE databases (also listed as Texaco at 975 Steirlin Road in Terra Bell - on the HIST UST database and Exxon at 975 N Shoreline on the CA FID UST and SWEEPS UST databases)*

  The listing is a former Texaco-branded service station located at the southeastern corner of the intersection of North Shoreline Boulevard and Terra Bella Avenue in Mountain View, California (also formerly known as 975 Stierlin Road).

  It is an open release directly upgradient from the subject property. According to documents ERS obtained from the GeoTracker database, former station features include one 6,000-gallon gasoline underground storage tank (UST), four 4,000-gallon gasoline USTs, and one waste oil UST. In 1992, the six USTs, associated product piping, and dispensers were removed. The former Texaco station property was later redeveloped as a fast-food restaurant.

  Following removal of USTs, approximately 1,520 cubic yards of petroleum hydrocarbon impacted soil and approximately 1,000 gallons of petroleum hydrocarbon-impacted groundwater were removed from the former UST area.

  From January 13 to February 9, 1994, ENTRIX, Inc. (ENTRIX) operated a soil vapor extraction (SVE) system at the Site. The SVE system was shut down for rebound evaluation from February 9 to 24, 1994. On February 24, 1994, ENTRIX

restarted and sampled the SVE system and concluded that no rebound had occurred. ENTRIX concluded that the SVE system appeared to achieve remedial objectives. The SVE system was decommissioned following the rebound test to facilitate Site redevelopment.

Twelve groundwater monitoring wells have been installed on or near the release property. Eight groundwater monitoring wells (MW-22A, MW-22B, MW-22D, and MW-22L through MW-22P) were installed on the release property, and four groundwater monitoring wells (MW-22E through MW-22H) were installed at off-site locations to assess the lateral and down-gradient extent of petroleum hydrocarbons in groundwater. Groundwater monitoring has been performed at the Site since 1988. Historically, the direction of groundwater flow at the Site has been towards the north.

Three of the monitoring wells for this release are on the subject property. MW-22G is located between the Fiesta Del Mar restaurant building and North Shoreline Boulevard on 1005 North Shoreline. MW-22E is located south of the building at 1015 North Shoreline and MW-22F is located on the eastern portion of the Fiesta Del Mar parking area.

In the most recent groundwater monitoring event for which reports were available (first quarter 2010), contamination was detected in MW-22E, which is on the subject site just south of the building at 1015 North Shoreline. Specifically, TPH-GRO was detected at 9,900 ug/L, Benzene was detected at a concentration of 130 ug/L, toluene was detected at a concentration of 4.2 ug/L. ethyl benzene was detected at a concentration of 11 ug/L, and MTBE was detected at a concentration of 1 ug/L.

Recent air sampling at 1015 North Shoreline indicates that there does not appear to be significant vapor intrusion into the building as a result of the impacted groundwater at the site.

This release has impacted the subject site. However, the source of the release is not on the property and the responsible party has been identified. Furthermore, the release is in public comment period for the proposed site closure and is expected to be closed within the next few months. Texaco also issued an indemnification to the current property owners, which is transferrable to future property owners (the Indemnity agreement is included in Appendix K). This

release is a Recognized Environmental Condition (REC) as defined by ASTM since it has impacted the subject site. However, given the current status moving toward closure, the fact a responsible party has been identified and is actively addressing the release, and the indemnification agreement, this issue appears to have been sufficiently addressed, and no additional investigation is recommended.

If the release is closed, the monitoring wells, including those on the subject site, should be abandoned in accordance with applicable regulations. The responsible party for the release (in this case Texaco) is typically the well owner and financially responsible for sealing the wells.

- *Shippen Property at 1175 Terra Bella - listed on the HIST CORTESE, LUST and HIST LUST databases*

  This release is a closed release south of the site. Gasoline contamination was discovered in 1998 and the release was closed in 2001. Although the release is closed, contamination remained on the release property at the time of closure. In addition to several borings on the release property, one investigation boring for the investigation was advanced on the subject site at the southwest corner of 1150 Terra Bella, the corner of the subject site closest to the release. Low levels of petroleum contamination (below regulatory screening thresholds) were detected in the groundwater sample collected from this boring. Given the investigation results and the subsequent site closure, this release does not appear to have significantly impacted the subject site. It is classified as a Historical Recognized Environmental Condition (HREC) since it is closed and is no additional investigation, monitoring, or remediation is required.

- *Regional NPL listings at Intel Corporation (365 Middlefield Road), Printex Corporation (Plymouth and Colony Streets), Jasco Chem Corp (1710 Villa Street), Moffett Naval Air Station (Moffett Field NAS), Spectra Physics Inc (1250 W Middlefield Road) and Telcom Semiconductors (1300 Terra Bella)*

  These are separate releases that have mingled and impacted a large area of Mountain View with chlorinated solvents and other volatile organics. The majority of impacts appear to be west of Shoreline Avenue or north of Highway 101. The subject site does not appear to be within the impacted areas defined for these releases.

Selected documentation for the former Texaco release including the Indemnification agreement is included in Appendix K.

Based on our evaluation of the distance, direction, regulatory status, and nature of the databases, none of the other offsite listings are likely to adversely impact the subject site.

4.1.3 Other Sites of Potential Environmental Concern

ERS did not identify any other sites of environmental concern. ERS reviewed the sites in the EDR Database that were unable to be mapped. None of the listings appeared to correspond to the site or adjacent properties. None of the listings appear likely to impact the site.

4.2 Additional Environmental Record Sources

Mountain View Fire Department
ERS reviewed files at the Mountain View Fire Department. The Mountain View Fire Department maintains hazardous material business plans and other tank and hazardous material records for properties within the City of Mountain View. The Fire Department inspections for 1005 North Shoreline were primarily just building/occupancy inspections and files for this parcel dated back to 1999. There were concerns in late 2010 regarding grease buildup and leaking tallow storage, but these appear to have been resolved and are not indicative of a recognized environmental condition as defined by the ASTM standard. The files for 1015 North Shoreline dealt primarily with structural and potential explosion concerns in 2001 with the use of the building, which was reported to be in a dilapidated condition for restaurant storage of materials including alcohol, which is flammable. It appears the requested repairs were made and the storage is now in accordance with fire code requirements. The only file for 1150 Terra Bella was an inspection on 2001, which listed the primary residence as vacant and classified the remainder of this parcel as an outdoor storage facility. None of the information in the Mountain View Fire Department files is indicative of a recognized environmental condition.

Santa Clara County Environmental Health Department
ERS reviewed available files for petroleum releases at the Santa Clara County Environmental Health Department. The site was not listed as a release site. Files for

the adjacent properties at 975 Shoreline and 1175 Terra Bella were reviewed. Please refer to Section 4.1.2 for additional information on these releases.

Santa Clara Valley Water District
ERS reviewed available files for solvent releases at the Santa Clara Valley Water District. The site was not listed as a release site.

Geotracker Database
ERS reviewed available files for nearby releases on the Geotracker database. The site was not listed as a release site. The site was not listed as a release site. Files for the adjacent properties at 975 Shoreline and 1175 Terra Bella were reviewed. Please refer to Section 4.1.2 for additional information on these releases.

DTSC Envirostor Database
ERS reviewed files on the DTSC Envirostor database. Neither the site nor adjacent properties were listed on the Envirostor database. None of the other listings in the surrounding area appear to have impacted the subject site.

4.3 Physical Setting Sources(s)

The EDR Report in Appendix C indicates that the underlying geology consists of Cenozoic Era, Quaternary Series Stratified Sequence deposits. Surface soils in the vicinity of the site are classified by the United States Department of Agriculture (USDA) Soil Conservation Service (SCS) as Botella clay loam. A representative profile of these soils consists of loam to a depth of 9 inches below ground surface (bgs), silty clay loam from 9 to 41 inches bgs, and sandy clay loam from a depth of 41 to 76 inches bgs.

Current site-specific information on groundwater flow direction, depth, and quality can only be confirmed through the installation and survey of a minimum of three on-site groundwater-monitoring wells, which was beyond the scope of this assessment. Based on the documents reviewed for releases in the general vicinity of the subject site, including monitoring wells on the subject site, groundwater appears to be 5 to 15 feet below ground surface with a general regional gradient to the north.

According to the 1999 USGS Mountain View, CA Quadrangle Map, the site elevation is approximately 38 feet above mean sea level with a slight regional topographic gradient downward to the north.

4.4 Historical Use Information on the Property

ERS reconstructed a brief history of the subject property through a review of historical Sanborn® Fire Insurance Maps; Topographic Maps; the EDR City Abstract; available records, permits and other documents available at the City of Gilroy and Santa Clara County; and historical aerial photographs provided by EDR. A summary of historical sources can be found in Section 12.0 of this Report with pertinent documents available in Appendices.

Circa 1939 to 1948	Subject site appears to be farmland or orchards.
Circa 1956-1965	Based on aerial photographs, the subject site buildings at 1015 North Shoreline and 1150 Terra Bella appear to have been present since at least 1956. The lot at 1005 North Shoreline appears to be graded but no structures on the 1956 and 1965 aerial photograph.
Circa 1974-2005	Based on aerial photographs, by 1974, a building is present at 1005 North Shoreline similar to the current configuration. Outdoor storage is apparent at the 1150 Terra Bella property, which appears to be trailers, sheds, and vehicles, is apparent in the 1974-2005 aerial photographs, but the scale of the photos limits the determination of the materials stored.
Circa 1991	City Directories list 1005 North Shoreline as Eat N Run
Circa 2001-2011	City Directories and Fire Department Inspection reports list 1005 North Shoreline as Fiesta Del Mar restaurant.

5.0 SITE RECONNAISSANCE

The goal of the site reconnaissance is to obtain information indicating the likelihood of identifying RECs in connection with the subject property. The subject property is visually observed and any structures located on the property are observed to the extent not obstructed by bodies of water, adjacent buildings, and/or other obstructions.

5.1 Methodology and Limiting Conditions

The exterior site reconnaissance was performed by walking open areas of the property in a grid fashion. Special attention was given to observe surfaces adjacent to the structures and sidewalks, surfaces in storage areas, and potential conduits to the subsurface such as drains and sumps. The interior site reconnaissance was performed by systematically observing each room and open space of the property. Additional attention was given to doors, utility rooms, storage areas, areas where hazardous materials were used or stored, and any other accessible areas.

5.2 General Site Setting

On February 16, 2011, Ms. Janelle Amendola of ERS conducted a site reconnaissance at the subject property. Ms. Amendola was accompanied by Mr. Sal Maleti during the site visit. The following is a checklist of features that are searched for during the Site reconnaissance:

Feature	Observed	Not Observed
Existing structures	X	
Evidence of past uses (foundations, debris, roads)		X
Hazardous substances and/or petroleum products	X	
Aboveground storage tanks (ASTs) or evidence of ASTs		X
Underground storage tanks (USTs) or evidence of USTs		X
Strong, pungent, or noxious odors		X
Pools of liquid likely to be hazardous materials or petroleum products		X
Drums		X
Unidentified substance containers		X
PCB-containing equipment		X
Subsurface hydraulic equipment		X
Heating/ventilation/air conditioning (HVAC)	X	
Stains on walls or ceilings		X
Floor drains and sumps	X	
Pits, ponds or lagoons, drainage channels		X
Agricultural Area(s)		X
Stained soil and/or pavement		X
Distressed vegetation		X

Feature	Observed	Not Observed
Waste or wastewater discharge to surface or surface waters on subject property (including stormwater)		X
Wells (irrigation, domestic, dry, injection, abandoned, monitoring)	X	
Septic systems		X

5.3 Exterior Observations

Evidence was found of the presence of the following items during the site reconnaissance of the exterior of the building.

- The fenced area behind the former residence of 1015 North Shoreline appeared to have been used for restaurant maintenance storage and workshop area including numerous small containers of paints and fuel as well as various other materials. ERS recommended and conducted soil sampling in this area. Please see section 7.o for additional information on the soil sampling in this area.
- A well house was observed on the 1150 Terra Bella property. A hose extended from the well house, but the occupant of the house at 1150 Terra Bella and Mr. Sal Maleti indicated that the well is no longer used. Although this is not in itself a source of contamination, it could potentially be a conduit for contamination to enter or spread through the groundwater. If the well is no longer used, it should be sealed in accordance with Santa Clara Valley Water District requirements. If it is still in use, the ownership and responsibility for maintaining, testing, and reporting the well will transfer to the new property owner if the property is sold. We recommend that the well be properly sealed if it will no longer be used.
- Monitoring Wells – Three monitoring wells associated with the release investigation for the former Texaco at 975 North Shoreline were observed on the subject site. These wells should be properly sealed by the responsible party for the release (in this case Texaco) once the release is closed.
- Tallow Storage – Used tallow storage was observed next to the Rio Del Mar Restaurant. The type and quantity appeared typical and appropriate for this size and type of restaurant. This is not a REC as defined by ASTM.
- The majority of the 1150 Terra Bella property and the western portion of the 1015 North Shoreline property appeared to have been graded and covered with gravel for outdoor storage. No staining or stressed vegetation was observed in these areas.

- There were several sheds present with various debris including empty containers on the 1150 Terra Bella property. We recommend the materials be removed from the sheds and appropriately disposed prior to the property transfer.

5.4 Interior Observations

Evidence was found of the presence of the following items during the site reconnaissance of the interior of the building. A discussion of these items follows:

- HVAC equipment - The buildings have HVAC equipment typical for their use.
- Grease Trap at 1005 Terra Bella. A grease trap is present in the floor in the kitchen area of the restaurant at 1005 Terra Bella. The restaurant manager reported the trap is emptied regularly. This is typical of a restaurant and is not indicative of an ASTM REC.

5.5 Non-Scope Items

The following non-scope items were included as part of this report based on readily available information that was reviewed.

5.5.1 Suspect Asbestos Containing Building Materials/Lead-Based Paint

Based on information reviewed, the buildings were constructed prior to 1980. Based on the age of the building, it is possible that asbestos containing materials and/or lead-based paint have been used at the site. Any renovation or demolition should follow local regulations for asbestos and lead-based paint sampling. Asbestos containing materials and/or lead-based paint in structures at the site are not recognized environmental conditions (RECs) as defined by ASTM.

5.5.2 Radon

No radon survey was conducted. According to the EDR report, Santa Clara County is in zone 2, indicating the average indoor level is between 2 and 4 picocuries per liter (pCi/L). The US Environmental Protection Agency (USEPA) action level is 4 pCi/L.

6.0 INTERVIEWS

6.1 Interview with Owner

According to the title provided by EDR, the current owner of the subject property is Annette Kavanaugh, Marco J Bertozzi Jr. & Robert S Bertozzi Trustees, who acquired it from First American Title Company in October 2007. According to Mr. Sal Maleti, their cousin and the broker representing the property, these are siblings who inherited the property, which has been in their family for several decades. The property owners designated Mr. Maleti as their representative for this ESA. ERS received a completed questionnaire for the property from Mr. Sal Maleti, the broker representing the property who is also the cousin of the current property owners and nephew of the former owner. Mr. Maleti has been familiar with the property for decades. Mr. Maleti provided the indemnity agreement in Appendix K and reports for the release at the former Texaco at 975 North Shoreline. Mr. Maleti was not aware of any other environmental concerns in connection with the site.

6.2 Interview with Site Manager

The property owner manages the property.

6.3 Interviews with Occupants

ERS interviewed the Fiesta Del Mar restaurant manager and the occupant of the house at 1150 Terra Bella during the site reconnaissance. Information they provided was included in the site reconnaissance section.

6.4 Interviews with Local Government Officials

ERS requested information from the Mountain View Fire Department, the County of Santa Clara Environmental Health Department, the Santa Clara Valley Water District, and the California Department of Toxic Substance Control. Information from these requests is presented elsewhere throughout this report.

6.5 Interviews with Others

ERS conducted no other interviews for this Phase I ESA.

7.0 SOIL SAMPLING

Based on observations during the site reconnaissance, ERS recommended soil sampling in the rear fenced yard of 1015 North Shoreline. The sampling was completed on March 2, 2011.

ERS advanced four hand auger soil borings to a depth of 3 feet below ground surface in areas near where materials including paints and lubricants were observed during the site reconnaissance. A map showing the sample locations is included in Appendix L.

Soil samples were collected from 0-0.5 feet bgs and 2.5-3 feet bgs in each of the soil borings. The samples were submitted to Torrent Laboratory for analysis. The laboratory was instructed to analyze the 0-0.5 foot deep samples for volatile organic compounds. The 2.5-3 foot samples were held pending analysis of the surface samples. If the surface samples revealed impacts, the deeper samples would have been analyzed to determine if the impacts extended to that depth. The laboratory analysis report is included in Appendix L.

No volatile organic compounds were detected in any of the analyzed soil samples.

No additional sampling or analysis is recommended.

8.0 FINDINGS

Our investigation has revealed the following findings in connection with the site.

- A petroleum release occurred on the adjacent and upgradient former Texaco at 975 North Shoreline. Three of the monitoring wells for this release are on the subject property. MW-22G is located between the Fiesta Del Mar restaurant building and North Shoreline Boulevard on 1005 North Shoreline. MW-22E is

located south of the building at 1015 North Shoreline and MW-22F is located on the eastern portion of the Fiesta Del Mar parking area.

In the most recent groundwater-monitoring event for which reports were available (first quarter 2010), contamination was detected in MW-22E, which is on the subject site just south of the building at 1015 North Shoreline. Specifically, TPH-GRO was detected at 9,900 ug/L, benzene was detected at a concentration of 130 ug/L, toluene was detected at a concentration of 4.2 ug/L. ethyl benzene was detected at a concentration of 11 ug/L, and MTBE was detected at a concentration of 1 ug/L.

Recent air sampling at 1015 North Shoreline indicates that there does not appear to be significant vapor intrusion into the building as a result of the impacted groundwater at the site.

This release has impacted the subject site. However, the source of the release is not on the property and the responsible party has been identified. Furthermore, the release is in public comment period for the proposed site closure and is expected to be closed within the next few months. Texaco also issued an indemnification to the current property owners, which is transferable to future property owners (the Indemnity agreement is included in Appendix K).

This release is a Recognized Environmental Condition (REC) as defined by ASTM since it has impacted the subject site. However, given the current status moving toward closure, the fact a responsible party has been identified and is actively addressing the release, and the indemnification agreement, this issue appears to have been sufficiently addressed, and no additional investigation is recommended.

If the release is closed, the monitoring wells, including those on the subject site, should be abandoned in accordance with applicable regulations. The responsible party for the release (in this case Texaco) is typically the well owner and financially responsible for sealing the wells.

- The Shippen Property at 1175 Terra Bella is a closed release south of the site. Gasoline contamination was discovered in 1998 and the release was closed in 2001. Although the release is closed, contamination remained on the release property at the time of closure. In addition to several borings on the release

property, one soil boring for the investigation was advanced on the subject property at the southwest corner of 1150 Terra Bella, the corner of the subject site closest to the release. Low levels of petroleum contamination (below regulatory screening thresholds) were detected in the groundwater sample collected from this boring. Given the investigation results and the subsequent site closure, this release does not appear to have significantly impacted the subject site. It is classified as a Historical Recognized Environmental Condition (HREC) since it is closed and is no additional investigation, monitoring, or remediation is required.

- There is an open drinking water well at the 1150 Terra Bella property. According to Mr. Maleti, the well is no longer used. Santa Clara Valley Water District regulations state wells that are not used for more than one year should be appropriately sealed. We recommend that the well be properly sealed by a licensed well driller in accordance with Santa Clara Valley Water District requirements. The well is not a REC but it could potentially be a conduit for contamination to enter or migrate through the groundwater.

- No volatile organic compounds were detected in the surface soil sampling in the fenced enclosure behind 1015 Shoreline. No additional sampling or analysis is recommended in this area.

- Based on information reviewed, the buildings were constructed prior to 1980. Based on the age of the buildings, there is a potential that asbestos containing materials and/or lead-based paint have been used at the site. If it has not already been done, a full survey should be completed prior to any demolition or renovation at the site. This is not a REC as defined by the ASTM standard.

8.1 Data Gaps

ERS was not able to review a Chain of Title Report for the subject property. It is ERS' opinion that the lack of this information does not pose a significant data gap, as an environmental lien search was performed for the subject property.

ERS was not able to conduct any interviews with the property owner or former occupants. However, based on the numerous other sources of information reviewed, it is ERS' opinion that the lack of this information does not pose a significant data gap.

8.2 Continuing Obligations

Continuing obligations start on the date that a landowner acquires title to a property. The landowner must: 1) comply with land use restrictions and institutional controls; 2) take "reasonable" steps with respect to hazardous substances releases; 3) provide full cooperation, assistance and access to persons that are authorized to conduct response actions or natural resource restoration; 4) comply with information requests and administrative subpoenas; and 5) provide all legally required notices. Continuing obligations must be satisfied to maintain liability protection under CERCLA for innocent landowners, bona fide prospective purchasers, and contiguous property owners.

9.0 OPINION

Please see section 8.o for a discussion of the findings and our opinion on whether or not they are AST RECs.

10.0 CONCLUSIONS

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-05 of 1005 & 1015 North Shoreline Blvd. and 1150 Terra Bella Ave., City of Mountain View, Santa Clara County, California, the subject property. Any exceptions to, or deletions from, this practice are described in Section 5.1 of this Report.

This assessment has revealed no evidence of Recognized Environmental Conditions in connection with the subject property, except the following:

- A petroleum release occurred on the adjacent and upgradient former Texaco at 975 North Shoreline. Three of the monitoring wells for this release are on the subject property. MW-22G is located between the Fiesta Del Mar restaurant building and North Shoreline Boulevard on 1005 North Shoreline. MW-22E is located south of the building at 1015 North Shoreline and MW-22F is located on the eastern portion of the Fiesta Del Mar parking area.

In the most recent groundwater-monitoring event for which reports were available (first quarter 2010), contamination was detected in MW-22E, which is on the subject site just south of the building at 1015 North Shoreline. Specifically, TPH-GRO was detected at 9,900 ug/L, benzene was detected at a concentration of 130 ug/L, toluene was detected at a concentration of 4.2 ug/L. ethyl benzene was detected at a concentration of 11 ug/L, and MTBE was detected at a concentration of 1 ug/L.

Recent air sampling at 1015 North Shoreline indicates that there does not appear to be significant vapor intrusion into the building as a result of the impacted groundwater at the site.

This release has impacted the subject site. However, the source of the release is not on the property and the responsible party has been identified. Furthermore, the release is in public comment period for the proposed site closure and is expected to be closed within the next few months. Texaco also issued an indemnification to the current property owners, which is transferable to future property owners (the Indemnity agreement is included in Appendix K).

This release is a Recognized Environmental Condition (REC) as defined by ASTM since it has impacted the subject site. However, given the current status moving toward closure, the fact a responsible party has been identified and is actively addressing the release, and the indemnification agreement, this issue appears to have been sufficiently addressed, and no additional investigation is recommended.

If the release is closed, the monitoring wells, including those on the subject site, should be abandoned in accordance with applicable regulations. The responsible party for the release (in this case Texaco) is typically the well owner and financially responsible for sealing the wells.

- The Shippen Property at 1175 Terra Bella is a closed release south of the site. Gasoline contamination was discovered in 1998 and the release was closed in 2001. Although the release is closed, contamination remained on the release property at the time of closure. In addition to several borings on the release property, one soil boring for the investigation was advanced on the subject property at the southwest corner of 1150 Terra Bella, the corner of the subject site closest to the release. Low levels of petroleum contamination (below regulatory

screening thresholds) were detected in the groundwater sample collected from this boring. Given the investigation results and the subsequent site closure, this release does not appear to have significantly impacted the subject site. It is classified as a Historical Recognized Environmental Condition (HREC) since it is closed and is no additional investigation, monitoring, or remediation is required.

The following are not recognized environmental conditions but are additional findings of our assessment:

- There is an open drinking water well at the 1150 Terra Bella property. According to Mr. Maleti, the well is no longer used. Santa Clara Valley Water District regulations state wells that are not used for more than one year should be appropriately sealed. We recommend that the well be properly sealed by a licensed well driller in accordance with Santa Clara Valley Water District requirements. The well is not a REC but it could potentially be a conduit for contamination to enter or migrate through the groundwater.

- No volatile organic compounds were detected in the surface soil sampling in the fenced enclosure behind 1015 Shoreline. No additional sampling or analysis is recommended in this area.

- Based on information reviewed, the buildings were constructed prior to 1980. Based on the age of the buildings, there is a potential that asbestos containing materials and/or lead-based paint have been used at the site. If it has not already been done, a full survey should be completed prior to any demolition or renovation at the site. This is not a REC as defined by the ASTM standard.

No other investigation is recommended.

Specific records should be maintained to preserve potential CERCLA defense and liability protection. The relative importance of record keeping depends on whether the User is a Prospective Purchaser, Lending Institution, or Seller.

11.0 DEVIATIONS

ERS did not evaluate the purchase price versus property value as ERS is not qualified to evaluate this issue.

12.0 ADDITIONAL SERVICES

Other than the soil sampling discussed in Section 7.0, no additional services were performed in conjunction with this Phase I ESA.

13.0 REFERENCES

EDR City Abstract: Polk's City Directory – 1922-2007

Historic Topographic Maps: 1899, 1902, 1943, 1947, 1948, 1953, 1961, 1968, 1973, 1980, 1991.

Historic Sanborn® Fire Insurance Maps

Aerial Photographs: 1939, 1948, 1956, 1965, 1975, 1982, 1993, 1998, and 2005.

The following governmental agencies were contacted to obtain the information in this report:

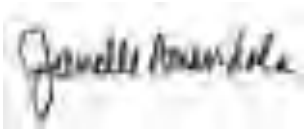
Jurisdiction	Agency
Federal	U.S. Environmental Protection Agency, Region IX, San Francisco
State and Regional	State of California Environmental Protection Agency, Department of Toxic Substances Control, Berkeley San Francisco Bay Regional Water Quality Control Board

Jurisdiction	Agency
County and Local	County of Santa Clara Environmental Health Dept. Santa Clara Valley Water District Mountain View Fire Department

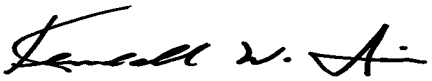
Websites:
http://www.epa.gov/region9/cleanup/
http://www.envirostor.dtsc.ca.gov/public/
http://www.geotracker.swrcb.ca.gov/
http://www.dhs.ca.gov/radon/default.htm

14.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

We declare that to the best of our professional knowledge and belief, we meet the definition of an Environmental Professional as defined in §312.21 of 40 CFR Part 312 and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Prepared by: 

Janelle Amendola, REA
Environmental Assessor

Reviewed by: 

Kendall W. Price, CEG, REA
Regional Manager/Principal Consultant

15.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Pursuant to 40 CFR 10 and according to 40 CFR Part 312, the Environmental Professionals listed in Section 14.0 possess sufficient education, training, and experience necessary to exercise the professional judgment to develop the opinions and conclusions regarding conditions indicative of releases or threatened releases on, at, in or to a property, sufficient to meet the objectives and performance factors in §312.20(e) and (f). See Appendix D for resumes on the following individuals:

Ms. Janelle Amendola

Mr. Kendall Price

APPENDIX A
Site Location Map



NOTE: Base map prepared by USGS and provided to ERS by EDR

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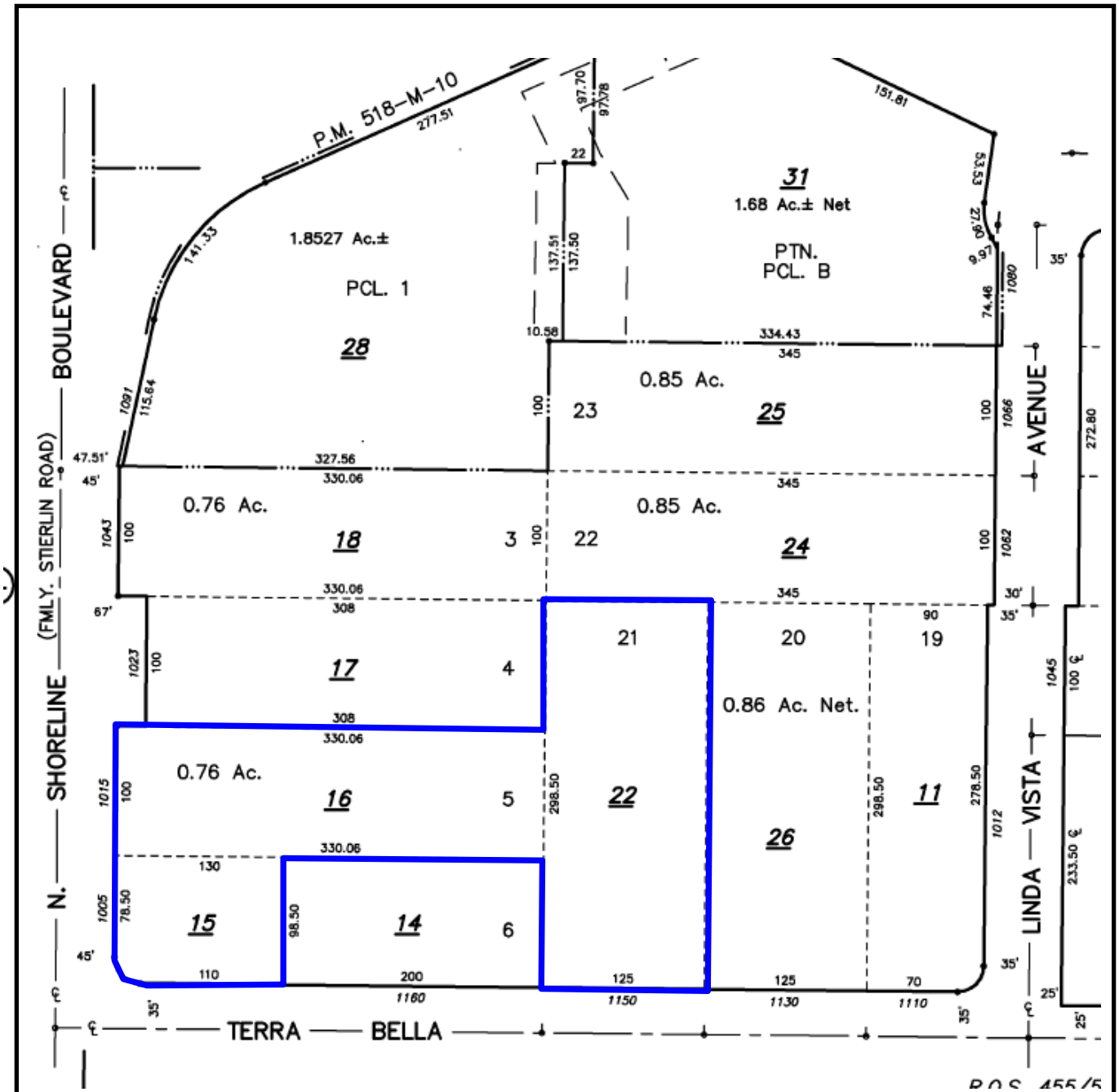
FIGURE 1 – Site Location

1005 and 1015 North Shoreline and 1150 Terra Bella
Mountain View, California

ers



NOTE: Base map prepared by Santa Clara County and provided to ERS by EDR

FIGURE 2 – Parcel Map

1005 and 1015 North Shoreline and 1150 Terra Bella
Mountain View, California

ers

APPENDIX B
Site Photographs



Photo 1: View of building and parking area at 1005 North Shoreline



Photo 2: Grease trap in 1005 North Shoreline

ers



Photo 3: Interior at 1005 North Shoreline



Photo 4: Exterior at 1015 North Shoreline



Photo 5: Equipment and storage in fenced area behind 1015 North Shoreline



Photo 6: Equipment and storage in fenced area behind 1015 North Shoreline



Photo 7: View of 1150 Terra Bella



Photo 8: Inside garage at 1150 Terra Bella



Photo 9: View of wellhouse at 1150 Terra Bella



Photo 10: Inside wellhouse at 1150 Terra Bella



Photo 11: View of materials and debris at 1150 Terra Bella



Photo 12: View of graded former outdoor storage area at 1150 Terra Bella

APPENDIX L
Soil Sampling at 1015 North Shoreline

ERS (Santa Clara)
2314 Walsh Ave
Santa Clara, California 95051
Tel: 4084960801
Fax: 4084960806

RE: 1015 Shoreline

Work Order No.: 1103016

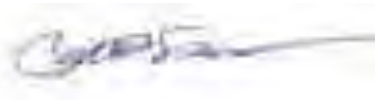
Dear Janelle Amendola:

Torrent Laboratory, Inc. received 8 sample(s) on March 02, 2011 for the analyses presented in the following Report.

As per CoC 4 samples On Hold.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.



Patti Sandrock

March 09, 2011
Date

Torrent LABORATORY, INC.

Date: 3/9/2011

Client: ERS (Santa Clara)

Project: 1015 Shoreline

Work Order: 1103016

CASE NARRATIVE

No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

[redacted]

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Janelle Amendola
ERS (Santa Clara)

Date Received: 03/02/11
Date Reported: 03/09/11

SB-1@surface 1103016-001

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

SB-2@surface 1103016-003

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

SB-3@surface 1103016-005

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

SB-4@surface 1103016-007

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Janelle Amendola
ERS (Santa Clara)

Date Received: 03/02/11
Date Reported: 03/09/11

Client Sample ID:	SB-1@surface	**Lab Sample ID:**	1103016-001A
Project Name/Location:	1015 Shoreline	**Sample Matrix:**	Soil
Project Number:			
Date/Time Sampled:	03/02/11 / 13:45		
Tag Number:	1015 Shoreline		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dichlorodifluoromethane	SW8260B	NA	03/03/11	1	4.4	10	ND		ug/Kg	404137	NA
Chloromethane	SW8260B	NA	03/03/11	1	4.6	10	ND		ug/Kg	404137	NA
Vinyl Chloride	SW8260B	NA	03/03/11	1	2.6	10	ND		ug/Kg	404137	NA
Bromomethane	SW8260B	NA	03/03/11	1	4.7	10	ND		ug/Kg	404137	NA
Trichlorofluoromethane	SW8260B	NA	03/03/11	1	2.9	10	ND		ug/Kg	404137	NA
1,1-Dichloroethene	SW8260B	NA	03/03/11	1	1.5	10	ND		ug/Kg	404137	NA
Freon 113	SW8260B	NA	03/03/11	1	3.7	10	ND		ug/Kg	404137	NA
Methylene Chloride	SW8260B	NA	03/03/11	1	2.0	10	ND		ug/Kg	404137	NA
trans-1,2-Dichloroethene	SW8260B	NA	03/03/11	1	1.1	10	ND		ug/Kg	404137	NA
MTBE	SW8260B	NA	03/03/11	1	2.6	10	ND		ug/Kg	404137	NA
tert-Butanol	SW8260B	NA	03/03/11	1	21	50	ND		ug/Kg	404137	NA
Diisopropyl ether (DIPE)	SW8260B	NA	03/03/11	1	2.2	10	ND		ug/Kg	404137	NA
1,1-Dichloroethane	SW8260B	NA	03/03/11	1	1.3	10	ND		ug/Kg	404137	NA
ETBE	SW8260B	NA	03/03/11	1	2.4	10	ND		ug/Kg	404137	NA
cis-1,2-Dichloroethene	SW8260B	NA	03/03/11	1	1.8	10	ND		ug/Kg	404137	NA
2,2-Dichloropropane	SW8260B	NA	03/03/11	1	1.2	10	ND		ug/Kg	404137	NA
Bromochloromethane	SW8260B	NA	03/03/11	1	2.3	10	ND		ug/Kg	404137	NA
Chloroform	SW8260B	NA	03/03/11	1	1.2	10	ND		ug/Kg	404137	NA
Carbon Tetrachloride	SW8260B	NA	03/03/11	1	1.6	10	ND		ug/Kg	404137	NA
1,1,1-Trichloroethane	SW8260B	NA	03/03/11	1	1.2	10	ND		ug/Kg	404137	NA
1,1-Dichloropropene	SW8260B	NA	03/03/11	1	1.4	10	ND		ug/Kg	404137	NA
Benzene	SW8260B	NA	03/03/11	1	1.5	10	ND		ug/Kg	404137	NA
TAME	SW8260B	NA	03/03/11	1	2.1	10	ND		ug/Kg	404137	NA
1,2-Dichloroethane	SW8260B	NA	03/03/11	1	1.9	10	ND		ug/Kg	404137	NA
Trichloroethylene	SW8260B	NA	03/03/11	1	3.9	10	ND		ug/Kg	404137	NA
Dibromomethane	SW8260B	NA	03/03/11	1	2.2	10	ND		ug/Kg	404137	NA
1,2-Dichloropropane	SW8260B	NA	03/03/11	1	1.3	10	ND		ug/Kg	404137	NA
Bromodichloromethane	SW8260B	NA	03/03/11	1	1.1	10	ND		ug/Kg	404137	NA
2-Chloroethyl vinyl ether	SW8260B	NA	03/03/11	1	4.5	10	ND		ug/Kg	404137	NA
cis-1,3-Dichloropropene	SW8260B	NA	03/03/11	1	1.4	10	ND		ug/Kg	404137	NA
Toluene	SW8260B	NA	03/03/11	1	0.98	10	ND		ug/Kg	404137	NA
Tetrachloroethylene	SW8260B	NA	03/03/11	1	1.8	10	ND		ug/Kg	404137	NA
trans-1,3-Dichloropropene	SW8260B	NA	03/03/11	1	1.2	10	ND		ug/Kg	404137	NA
1,1,2-Trichloroethane	SW8260B	NA	03/03/11	1	1.8	10	ND		ug/Kg	404137	NA
Dibromochloromethane	SW8260B	NA	03/03/11	1	1.1	10	ND		ug/Kg	404137	NA
1,3-Dichloropropane	SW8260B	NA	03/03/11	1	2.1	10	ND		ug/Kg	404137	NA

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Janelle Amendola
ERS (Santa Clara)

Date Received: 03/02/11
Date Reported: 03/09/11

Client Sample ID:	SB-1@surface	**Lab Sample ID:**	1103016-001A
Project Name/Location:	1015 Shoreline	**Sample Matrix:**	Soil
Project Number:			
Date/Time Sampled:	03/02/11 / 13:45		
Tag Number:	1015 Shoreline		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,2-Dibromoethane	SW8260B	NA	03/03/11	1	1.7	10	ND		ug/Kg	404137	NA
Ethyl Benzene	SW8260B	NA	03/03/11	1	0.86	10	ND		ug/Kg	404137	NA
Chlorobenzene	SW8260B	NA	03/03/11	1	4.2	10	ND		ug/Kg	404137	NA
1,1,1,2-Tetrachloroethane	SW8260B	NA	03/03/11	1	0.86	10	ND		ug/Kg	404137	NA
m,p-Xylene	SW8260B	NA	03/03/11	1	1.9	10	ND		ug/Kg	404137	NA
o-Xylene	SW8260B	NA	03/03/11	1	0.66	5.0	ND		ug/Kg	404137	NA
Styrene	SW8260B	NA	03/03/11	1	0.77	10	ND		ug/Kg	404137	NA
Bromoform	SW8260B	NA	03/03/11	1	1.9	10	ND		ug/Kg	404137	NA
Isopropyl Benzene	SW8260B	NA	03/03/11	1	1.2	10	ND		ug/Kg	404137	NA
n-Propylbenzene	SW8260B	NA	03/03/11	1	1.4	10	ND		ug/Kg	404137	NA
Bromobenzene	SW8260B	NA	03/03/11	1	1.2	10	ND		ug/Kg	404137	NA
1,1,2,2-Tetrachloroethane	SW8260B	NA	03/03/11	1	3.0	10	ND		ug/Kg	404137	NA
1,3,5-Trimethylbenzene	SW8260B	NA	03/03/11	1	1.1	10	ND		ug/Kg	404137	NA
1,2,3-Trichloropropane	SW8260B	NA	03/03/11	1	3.3	10	ND		ug/Kg	404137	NA
4-Chlorotoluene	SW8260B	NA	03/03/11	1	1.6	10	ND		ug/Kg	404137	NA
2-Chlorotoluene	SW8260B	NA	03/03/11	1	1.6	10	ND		ug/Kg	404137	NA
tert-Butylbenzene	SW8260B	NA	03/03/11	1	1.4	10	ND		ug/Kg	404137	NA
1,2,4-Trimethylbenzene	SW8260B	NA	03/03/11	1	1.1	10	ND		ug/Kg	404137	NA
sec-Butyl Benzene	SW8260B	NA	03/03/11	1	1.6	10	ND		ug/Kg	404137	NA
p-Isopropyltoluene	SW8260B	NA	03/03/11	1	1.5	10	ND		ug/Kg	404137	NA
1,3-Dichlorobenzene	SW8260B	NA	03/03/11	1	1.8	10	ND		ug/Kg	404137	NA
1,4-Dichlorobenzene	SW8260B	NA	03/03/11	1	1.5	10	ND		ug/Kg	404137	NA
n-Butylbenzene	SW8260B	NA	03/03/11	1	2.2	10	ND		ug/Kg	404137	NA
1,2-Dichlorobenzene	SW8260B	NA	03/03/11	1	1.3	10	ND		ug/Kg	404137	NA
1,2-Dibromo-3-Chloropropane	SW8260B	NA	03/03/11	1	4.2	10	ND		ug/Kg	404137	NA
Hexachlorobutadiene	SW8260B	NA	03/03/11	1	2.6	10	ND		ug/Kg	404137	NA
1,2,4-Trichlorobenzene	SW8260B	NA	03/03/11	1	2.1	10	ND		ug/Kg	404137	NA
Naphthalene	SW8260B	NA	03/03/11	1	2.8	10	ND		ug/Kg	404137	NA
1,2,3-Trichlorobenzene	SW8260B	NA	03/03/11	1	2.9	10	ND		ug/Kg	404137	NA
(S) Dibromofluoromethane	SW8260B	NA	03/03/11	1	59.8	148	131		%	404137	NA
(S) Toluene-d8	SW8260B	NA	03/03/11	1	55.2	133	87.8		%	404137	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	03/03/11	1	55.8	141	123		%	404137	NA

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Janelle Amendola
ERS (Santa Clara)

Date Received: 03/02/11
Date Reported: 03/09/11

Client Sample ID:	SB-2@surface	**Lab Sample ID:**	1103016-003A
Project Name/Location:	1015 Shoreline	**Sample Matrix:**	Soil
Project Number:			
Date/Time Sampled:	03/02/11 / 14:15		
Tag Number:	1015 Shoreline		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dichlorodifluoromethane	SW8260B	NA	03/03/11	1	4.4	10	ND		ug/Kg	404137	NA
Chloromethane	SW8260B	NA	03/03/11	1	4.6	10	ND		ug/Kg	404137	NA
Vinyl Chloride	SW8260B	NA	03/03/11	1	2.6	10	ND		ug/Kg	404137	NA
Bromomethane	SW8260B	NA	03/03/11	1	4.7	10	ND		ug/Kg	404137	NA
Trichlorofluoromethane	SW8260B	NA	03/03/11	1	2.9	10	ND		ug/Kg	404137	NA
1,1-Dichloroethene	SW8260B	NA	03/03/11	1	1.5	10	ND		ug/Kg	404137	NA
Freon 113	SW8260B	NA	03/03/11	1	3.7	10	ND		ug/Kg	404137	NA
Methylene Chloride	SW8260B	NA	03/03/11	1	2.0	10	ND		ug/Kg	404137	NA
trans-1,2-Dichloroethene	SW8260B	NA	03/03/11	1	1.1	10	ND		ug/Kg	404137	NA
MTBE	SW8260B	NA	03/03/11	1	2.6	10	ND		ug/Kg	404137	NA
tert-Butanol	SW8260B	NA	03/03/11	1	21	50	ND		ug/Kg	404137	NA
Diisopropyl ether (DIPE)	SW8260B	NA	03/03/11	1	2.2	10	ND		ug/Kg	404137	NA
1,1-Dichloroethane	SW8260B	NA	03/03/11	1	1.3	10	ND		ug/Kg	404137	NA
ETBE	SW8260B	NA	03/03/11	1	2.4	10	ND		ug/Kg	404137	NA
cis-1,2-Dichloroethene	SW8260B	NA	03/03/11	1	1.8	10	ND		ug/Kg	404137	NA
2,2-Dichloropropane	SW8260B	NA	03/03/11	1	1.2	10	ND		ug/Kg	404137	NA
Bromochloromethane	SW8260B	NA	03/03/11	1	2.3	10	ND		ug/Kg	404137	NA
Chloroform	SW8260B	NA	03/03/11	1	1.2	10	ND		ug/Kg	404137	NA
Carbon Tetrachloride	SW8260B	NA	03/03/11	1	1.6	10	ND		ug/Kg	404137	NA
1,1,1-Trichloroethane	SW8260B	NA	03/03/11	1	1.2	10	ND		ug/Kg	404137	NA
1,1-Dichloropropene	SW8260B	NA	03/03/11	1	1.4	10	ND		ug/Kg	404137	NA
Benzene	SW8260B	NA	03/03/11	1	1.5	10	ND		ug/Kg	404137	NA
TAME	SW8260B	NA	03/03/11	1	2.1	10	ND		ug/Kg	404137	NA
1,2-Dichloroethane	SW8260B	NA	03/03/11	1	1.9	10	ND		ug/Kg	404137	NA
Trichloroethylene	SW8260B	NA	03/03/11	1	3.9	10	ND		ug/Kg	404137	NA
Dibromomethane	SW8260B	NA	03/03/11	1	2.2	10	ND		ug/Kg	404137	NA
1,2-Dichloropropane	SW8260B	NA	03/03/11	1	1.3	10	ND		ug/Kg	404137	NA
Bromodichloromethane	SW8260B	NA	03/03/11	1	1.1	10	ND		ug/Kg	404137	NA
2-Chloroethyl vinyl ether	SW8260B	NA	03/03/11	1	4.5	10	ND		ug/Kg	404137	NA
cis-1,3-Dichloropropene	SW8260B	NA	03/03/11	1	1.4	10	ND		ug/Kg	404137	NA
Toluene	SW8260B	NA	03/03/11	1	0.98	10	ND		ug/Kg	404137	NA
Tetrachloroethylene	SW8260B	NA	03/03/11	1	1.8	10	ND		ug/Kg	404137	NA
trans-1,3-Dichloropropene	SW8260B	NA	03/03/11	1	1.2	10	ND		ug/Kg	404137	NA
1,1,2-Trichloroethane	SW8260B	NA	03/03/11	1	1.8	10	ND		ug/Kg	404137	NA
Dibromochloromethane	SW8260B	NA	03/03/11	1	1.1	10	ND		ug/Kg	404137	NA
1,3-Dichloropropane	SW8260B	NA	03/03/11	1	2.1	10	ND		ug/Kg	404137	NA

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Janelle Amendola
ERS (Santa Clara)

Date Received: 03/02/11
Date Reported: 03/09/11

Client Sample ID:	SB-2@surface	**Lab Sample ID:**	1103016-003A
Project Name/Location:	1015 Shoreline	**Sample Matrix:**	Soil
Project Number:			
Date/Time Sampled:	03/02/11 / 14:15		
Tag Number:	1015 Shoreline		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,2-Dibromoethane	SW8260B	NA	03/03/11	1	1.7	10	ND		ug/Kg	404137	NA
Ethyl Benzene	SW8260B	NA	03/03/11	1	0.86	10	ND		ug/Kg	404137	NA
Chlorobenzene	SW8260B	NA	03/03/11	1	4.2	10	ND		ug/Kg	404137	NA
1,1,1,2-Tetrachloroethane	SW8260B	NA	03/03/11	1	0.86	10	ND		ug/Kg	404137	NA
m,p-Xylene	SW8260B	NA	03/03/11	1	1.9	10	ND		ug/Kg	404137	NA
o-Xylene	SW8260B	NA	03/03/11	1	0.66	5.0	ND		ug/Kg	404137	NA
Styrene	SW8260B	NA	03/03/11	1	0.77	10	ND		ug/Kg	404137	NA
Bromoform	SW8260B	NA	03/03/11	1	1.9	10	ND		ug/Kg	404137	NA
Isopropyl Benzene	SW8260B	NA	03/03/11	1	1.2	10	ND		ug/Kg	404137	NA
n-Propylbenzene	SW8260B	NA	03/03/11	1	1.4	10	ND		ug/Kg	404137	NA
Bromobenzene	SW8260B	NA	03/03/11	1	1.2	10	ND		ug/Kg	404137	NA
1,1,2,2-Tetrachloroethane	SW8260B	NA	03/03/11	1	3.0	10	ND		ug/Kg	404137	NA
1,3,5-Trimethylbenzene	SW8260B	NA	03/03/11	1	1.1	10	ND		ug/Kg	404137	NA
1,2,3-Trichloropropane	SW8260B	NA	03/03/11	1	3.3	10	ND		ug/Kg	404137	NA
4-Chlorotoluene	SW8260B	NA	03/03/11	1	1.6	10	ND		ug/Kg	404137	NA
2-Chlorotoluene	SW8260B	NA	03/03/11	1	1.6	10	ND		ug/Kg	404137	NA
tert-Butylbenzene	SW8260B	NA	03/03/11	1	1.4	10	ND		ug/Kg	404137	NA
1,2,4-Trimethylbenzene	SW8260B	NA	03/03/11	1	1.1	10	ND		ug/Kg	404137	NA
sec-Butyl Benzene	SW8260B	NA	03/03/11	1	1.6	10	ND		ug/Kg	404137	NA
p-Isopropyltoluene	SW8260B	NA	03/03/11	1	1.5	10	ND		ug/Kg	404137	NA
1,3-Dichlorobenzene	SW8260B	NA	03/03/11	1	1.8	10	ND		ug/Kg	404137	NA
1,4-Dichlorobenzene	SW8260B	NA	03/03/11	1	1.5	10	ND		ug/Kg	404137	NA
n-Butylbenzene	SW8260B	NA	03/03/11	1	2.2	10	ND		ug/Kg	404137	NA
1,2-Dichlorobenzene	SW8260B	NA	03/03/11	1	1.3	10	ND		ug/Kg	404137	NA
1,2-Dibromo-3-Chloropropane	SW8260B	NA	03/03/11	1	4.2	10	ND		ug/Kg	404137	NA
Hexachlorobutadiene	SW8260B	NA	03/03/11	1	2.6	10	ND		ug/Kg	404137	NA
1,2,4-Trichlorobenzene	SW8260B	NA	03/03/11	1	2.1	10	ND		ug/Kg	404137	NA
Naphthalene	SW8260B	NA	03/03/11	1	2.8	10	ND		ug/Kg	404137	NA
1,2,3-Trichlorobenzene	SW8260B	NA	03/03/11	1	2.9	10	ND		ug/Kg	404137	NA
(S) Dibromofluoromethane	SW8260B	NA	03/03/11	1	59.8	148	127		%	404137	NA
(S) Toluene-d8	SW8260B	NA	03/03/11	1	55.2	133	85.3		%	404137	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	03/03/11	1	55.8	141	112		%	404137	NA

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Janelle Amendola
ERS (Santa Clara)

Date Received: 03/02/11
Date Reported: 03/09/11

Client Sample ID:	SB-3@surface	**Lab Sample ID:**	1103016-005A
Project Name/Location:	1015 Shoreline	**Sample Matrix:**	Soil
Project Number:			
Date/Time Sampled:	03/02/11 / 14:40		
Tag Number:	1015 Shoreline		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dichlorodifluoromethane	SW8260B	NA	03/03/11	1	4.4	10	ND		ug/Kg	404137	NA
Chloromethane	SW8260B	NA	03/03/11	1	4.6	10	ND		ug/Kg	404137	NA
Vinyl Chloride	SW8260B	NA	03/03/11	1	2.6	10	ND		ug/Kg	404137	NA
Bromomethane	SW8260B	NA	03/03/11	1	4.7	10	ND		ug/Kg	404137	NA
Trichlorofluoromethane	SW8260B	NA	03/03/11	1	2.9	10	ND		ug/Kg	404137	NA
1,1-Dichloroethene	SW8260B	NA	03/03/11	1	1.5	10	ND		ug/Kg	404137	NA
Freon 113	SW8260B	NA	03/03/11	1	3.7	10	ND		ug/Kg	404137	NA
Methylene Chloride	SW8260B	NA	03/03/11	1	2.0	10	ND		ug/Kg	404137	NA
trans-1,2-Dichloroethene	SW8260B	NA	03/03/11	1	1.1	10	ND		ug/Kg	404137	NA
MTBE	SW8260B	NA	03/03/11	1	2.6	10	ND		ug/Kg	404137	NA
tert-Butanol	SW8260B	NA	03/03/11	1	21	50	ND		ug/Kg	404137	NA
Diisopropyl ether (DIPE)	SW8260B	NA	03/03/11	1	2.2	10	ND		ug/Kg	404137	NA
1,1-Dichloroethane	SW8260B	NA	03/03/11	1	1.3	10	ND		ug/Kg	404137	NA
ETBE	SW8260B	NA	03/03/11	1	2.4	10	ND		ug/Kg	404137	NA
cis-1,2-Dichloroethene	SW8260B	NA	03/03/11	1	1.8	10	ND		ug/Kg	404137	NA
2,2-Dichloropropane	SW8260B	NA	03/03/11	1	1.2	10	ND		ug/Kg	404137	NA
Bromochloromethane	SW8260B	NA	03/03/11	1	2.3	10	ND		ug/Kg	404137	NA
Chloroform	SW8260B	NA	03/03/11	1	1.2	10	ND		ug/Kg	404137	NA
Carbon Tetrachloride	SW8260B	NA	03/03/11	1	1.6	10	ND		ug/Kg	404137	NA
1,1,1-Trichloroethane	SW8260B	NA	03/03/11	1	1.2	10	ND		ug/Kg	404137	NA
1,1-Dichloropropene	SW8260B	NA	03/03/11	1	1.4	10	ND		ug/Kg	404137	NA
Benzene	SW8260B	NA	03/03/11	1	1.5	10	ND		ug/Kg	404137	NA
TAME	SW8260B	NA	03/03/11	1	2.1	10	ND		ug/Kg	404137	NA
1,2-Dichloroethane	SW8260B	NA	03/03/11	1	1.9	10	ND		ug/Kg	404137	NA
Trichloroethylene	SW8260B	NA	03/03/11	1	3.9	10	ND		ug/Kg	404137	NA
Dibromomethane	SW8260B	NA	03/03/11	1	2.2	10	ND		ug/Kg	404137	NA
1,2-Dichloropropane	SW8260B	NA	03/03/11	1	1.3	10	ND		ug/Kg	404137	NA
Bromodichloromethane	SW8260B	NA	03/03/11	1	1.1	10	ND		ug/Kg	404137	NA
2-Chloroethyl vinyl ether	SW8260B	NA	03/03/11	1	4.5	10	ND		ug/Kg	404137	NA
cis-1,3-Dichloropropene	SW8260B	NA	03/03/11	1	1.4	10	ND		ug/Kg	404137	NA
Toluene	SW8260B	NA	03/03/11	1	0.98	10	ND		ug/Kg	404137	NA
Tetrachloroethylene	SW8260B	NA	03/03/11	1	1.8	10	ND		ug/Kg	404137	NA
trans-1,3-Dichloropropene	SW8260B	NA	03/03/11	1	1.2	10	ND		ug/Kg	404137	NA
1,1,2-Trichloroethane	SW8260B	NA	03/03/11	1	1.8	10	ND		ug/Kg	404137	NA
Dibromochloromethane	SW8260B	NA	03/03/11	1	1.1	10	ND		ug/Kg	404137	NA
1,3-Dichloropropane	SW8260B	NA	03/03/11	1	2.1	10	ND		ug/Kg	404137	NA

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Janelle Amendola
ERS (Santa Clara)

Date Received: 03/02/11
Date Reported: 03/09/11

Client Sample ID:	SB-3@surface	**Lab Sample ID:**	1103016-005A
Project Name/Location:	1015 Shoreline	**Sample Matrix:**	Soil
Project Number:			
Date/Time Sampled:	03/02/11 / 14:40		
Tag Number:	1015 Shoreline		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,2-Dibromoethane	SW8260B	NA	03/03/11	1	1.7	10	ND		ug/Kg	404137	NA
Ethyl Benzene	SW8260B	NA	03/03/11	1	0.86	10	ND		ug/Kg	404137	NA
Chlorobenzene	SW8260B	NA	03/03/11	1	4.2	10	ND		ug/Kg	404137	NA
1,1,1,2-Tetrachloroethane	SW8260B	NA	03/03/11	1	0.86	10	ND		ug/Kg	404137	NA
m,p-Xylene	SW8260B	NA	03/03/11	1	1.9	10	ND		ug/Kg	404137	NA
o-Xylene	SW8260B	NA	03/03/11	1	0.66	5.0	ND		ug/Kg	404137	NA
Styrene	SW8260B	NA	03/03/11	1	0.77	10	ND		ug/Kg	404137	NA
Bromoform	SW8260B	NA	03/03/11	1	1.9	10	ND		ug/Kg	404137	NA
Isopropyl Benzene	SW8260B	NA	03/03/11	1	1.2	10	ND		ug/Kg	404137	NA
n-Propylbenzene	SW8260B	NA	03/03/11	1	1.4	10	ND		ug/Kg	404137	NA
Bromobenzene	SW8260B	NA	03/03/11	1	1.2	10	ND		ug/Kg	404137	NA
1,1,2,2-Tetrachloroethane	SW8260B	NA	03/03/11	1	3.0	10	ND		ug/Kg	404137	NA
1,3,5-Trimethylbenzene	SW8260B	NA	03/03/11	1	1.1	10	ND		ug/Kg	404137	NA
1,2,3-Trichloropropane	SW8260B	NA	03/03/11	1	3.3	10	ND		ug/Kg	404137	NA
4-Chlorotoluene	SW8260B	NA	03/03/11	1	1.6	10	ND		ug/Kg	404137	NA
2-Chlorotoluene	SW8260B	NA	03/03/11	1	1.6	10	ND		ug/Kg	404137	NA
tert-Butylbenzene	SW8260B	NA	03/03/11	1	1.4	10	ND		ug/Kg	404137	NA
1,2,4-Trimethylbenzene	SW8260B	NA	03/03/11	1	1.1	10	ND		ug/Kg	404137	NA
sec-Butyl Benzene	SW8260B	NA	03/03/11	1	1.6	10	ND		ug/Kg	404137	NA
p-Isopropyltoluene	SW8260B	NA	03/03/11	1	1.5	10	ND		ug/Kg	404137	NA
1,3-Dichlorobenzene	SW8260B	NA	03/03/11	1	1.8	10	ND		ug/Kg	404137	NA
1,4-Dichlorobenzene	SW8260B	NA	03/03/11	1	1.5	10	ND		ug/Kg	404137	NA
n-Butylbenzene	SW8260B	NA	03/03/11	1	2.2	10	ND		ug/Kg	404137	NA
1,2-Dichlorobenzene	SW8260B	NA	03/03/11	1	1.3	10	ND		ug/Kg	404137	NA
1,2-Dibromo-3-Chloropropane	SW8260B	NA	03/03/11	1	4.2	10	ND		ug/Kg	404137	NA
Hexachlorobutadiene	SW8260B	NA	03/03/11	1	2.6	10	ND		ug/Kg	404137	NA
1,2,4-Trichlorobenzene	SW8260B	NA	03/03/11	1	2.1	10	ND		ug/Kg	404137	NA
Naphthalene	SW8260B	NA	03/03/11	1	2.8	10	ND		ug/Kg	404137	NA
1,2,3-Trichlorobenzene	SW8260B	NA	03/03/11	1	2.9	10	ND		ug/Kg	404137	NA
(S) Dibromofluoromethane	SW8260B	NA	03/03/11	1	59.8	148	114		%	404137	NA
(S) Toluene-d8	SW8260B	NA	03/03/11	1	55.2	133	86.1		%	404137	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	03/03/11	1	55.8	141	115		%	404137	NA

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Janelle Amendola
ERS (Santa Clara)

Date Received: 03/02/11
Date Reported: 03/09/11

Client Sample ID:	SB-4@surface	**Lab Sample ID:**	1103016-007A
Project Name/Location:	1015 Shoreline	**Sample Matrix:**	Soil
Project Number:			
Date/Time Sampled:	03/02/11 / 15:00		
Tag Number:	1015 Shoreline		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dichlorodifluoromethane	SW8260B	NA	03/03/11	1	4.4	10	ND		ug/Kg	404137	NA
Chloromethane	SW8260B	NA	03/03/11	1	4.6	10	ND		ug/Kg	404137	NA
Vinyl Chloride	SW8260B	NA	03/03/11	1	2.6	10	ND		ug/Kg	404137	NA
Bromomethane	SW8260B	NA	03/03/11	1	4.7	10	ND		ug/Kg	404137	NA
Trichlorofluoromethane	SW8260B	NA	03/03/11	1	2.9	10	ND		ug/Kg	404137	NA
1,1-Dichloroethene	SW8260B	NA	03/03/11	1	1.5	10	ND		ug/Kg	404137	NA
Freon 113	SW8260B	NA	03/03/11	1	3.7	10	ND		ug/Kg	404137	NA
Methylene Chloride	SW8260B	NA	03/03/11	1	2.0	10	ND		ug/Kg	404137	NA
trans-1,2-Dichloroethene	SW8260B	NA	03/03/11	1	1.1	10	ND		ug/Kg	404137	NA
MTBE	SW8260B	NA	03/03/11	1	2.6	10	ND		ug/Kg	404137	NA
tert-Butanol	SW8260B	NA	03/03/11	1	21	50	ND		ug/Kg	404137	NA
Diisopropyl ether (DIPE)	SW8260B	NA	03/03/11	1	2.2	10	ND		ug/Kg	404137	NA
1,1-Dichloroethane	SW8260B	NA	03/03/11	1	1.3	10	ND		ug/Kg	404137	NA
ETBE	SW8260B	NA	03/03/11	1	2.4	10	ND		ug/Kg	404137	NA
cis-1,2-Dichloroethene	SW8260B	NA	03/03/11	1	1.8	10	ND		ug/Kg	404137	NA
2,2-Dichloropropane	SW8260B	NA	03/03/11	1	1.2	10	ND		ug/Kg	404137	NA
Bromochloromethane	SW8260B	NA	03/03/11	1	2.3	10	ND		ug/Kg	404137	NA
Chloroform	SW8260B	NA	03/03/11	1	1.2	10	ND		ug/Kg	404137	NA
Carbon Tetrachloride	SW8260B	NA	03/03/11	1	1.6	10	ND		ug/Kg	404137	NA
1,1,1-Trichloroethane	SW8260B	NA	03/03/11	1	1.2	10	ND		ug/Kg	404137	NA
1,1-Dichloropropene	SW8260B	NA	03/03/11	1	1.4	10	ND		ug/Kg	404137	NA
Benzene	SW8260B	NA	03/03/11	1	1.5	10	ND		ug/Kg	404137	NA
TAME	SW8260B	NA	03/03/11	1	2.1	10	ND		ug/Kg	404137	NA
1,2-Dichloroethane	SW8260B	NA	03/03/11	1	1.9	10	ND		ug/Kg	404137	NA
Trichloroethylene	SW8260B	NA	03/03/11	1	3.9	10	ND		ug/Kg	404137	NA
Dibromomethane	SW8260B	NA	03/03/11	1	2.2	10	ND		ug/Kg	404137	NA
1,2-Dichloropropane	SW8260B	NA	03/03/11	1	1.3	10	ND		ug/Kg	404137	NA
Bromodichloromethane	SW8260B	NA	03/03/11	1	1.1	10	ND		ug/Kg	404137	NA
2-Chloroethyl vinyl ether	SW8260B	NA	03/03/11	1	4.5	10	ND		ug/Kg	404137	NA
cis-1,3-Dichloropropene	SW8260B	NA	03/03/11	1	1.4	10	ND		ug/Kg	404137	NA
Toluene	SW8260B	NA	03/03/11	1	0.98	10	ND		ug/Kg	404137	NA
Tetrachloroethylene	SW8260B	NA	03/03/11	1	1.8	10	ND		ug/Kg	404137	NA
trans-1,3-Dichloropropene	SW8260B	NA	03/03/11	1	1.2	10	ND		ug/Kg	404137	NA
1,1,2-Trichloroethane	SW8260B	NA	03/03/11	1	1.8	10	ND		ug/Kg	404137	NA
Dibromochloromethane	SW8260B	NA	03/03/11	1	1.1	10	ND		ug/Kg	404137	NA
1,3-Dichloropropane	SW8260B	NA	03/03/11	1	2.1	10	ND		ug/Kg	404137	NA

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Janelle Amendola
ERS (Santa Clara)

Date Received: 03/02/11
Date Reported: 03/09/11

Client Sample ID:	SB-4@surface	**Lab Sample ID:**	1103016-007A
Project Name/Location:	1015 Shoreline	**Sample Matrix:**	Soil
Project Number:			
Date/Time Sampled:	03/02/11 / 15:00		
Tag Number:	1015 Shoreline		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,2-Dibromoethane	SW8260B	NA	03/03/11	1	1.7	10	ND		ug/Kg	404137	NA
Ethyl Benzene	SW8260B	NA	03/03/11	1	0.86	10	ND		ug/Kg	404137	NA
Chlorobenzene	SW8260B	NA	03/03/11	1	4.2	10	ND		ug/Kg	404137	NA
1,1,1,2-Tetrachloroethane	SW8260B	NA	03/03/11	1	0.86	10	ND		ug/Kg	404137	NA
m,p-Xylene	SW8260B	NA	03/03/11	1	1.9	10	ND		ug/Kg	404137	NA
o-Xylene	SW8260B	NA	03/03/11	1	0.66	5.0	ND		ug/Kg	404137	NA
Styrene	SW8260B	NA	03/03/11	1	0.77	10	ND		ug/Kg	404137	NA
Bromoform	SW8260B	NA	03/03/11	1	1.9	10	ND		ug/Kg	404137	NA
Isopropyl Benzene	SW8260B	NA	03/03/11	1	1.2	10	ND		ug/Kg	404137	NA
n-Propylbenzene	SW8260B	NA	03/03/11	1	1.4	10	ND		ug/Kg	404137	NA
Bromobenzene	SW8260B	NA	03/03/11	1	1.2	10	ND		ug/Kg	404137	NA
1,1,2,2-Tetrachloroethane	SW8260B	NA	03/03/11	1	3.0	10	ND		ug/Kg	404137	NA
1,3,5-Trimethylbenzene	SW8260B	NA	03/03/11	1	1.1	10	ND		ug/Kg	404137	NA
1,2,3-Trichloropropane	SW8260B	NA	03/03/11	1	3.3	10	ND		ug/Kg	404137	NA
4-Chlorotoluene	SW8260B	NA	03/03/11	1	1.6	10	ND		ug/Kg	404137	NA
2-Chlorotoluene	SW8260B	NA	03/03/11	1	1.6	10	ND		ug/Kg	404137	NA
tert-Butylbenzene	SW8260B	NA	03/03/11	1	1.4	10	ND		ug/Kg	404137	NA
1,2,4-Trimethylbenzene	SW8260B	NA	03/03/11	1	1.1	10	ND		ug/Kg	404137	NA
sec-Butyl Benzene	SW8260B	NA	03/03/11	1	1.6	10	ND		ug/Kg	404137	NA
p-Isopropyltoluene	SW8260B	NA	03/03/11	1	1.5	10	ND		ug/Kg	404137	NA
1,3-Dichlorobenzene	SW8260B	NA	03/03/11	1	1.8	10	ND		ug/Kg	404137	NA
1,4-Dichlorobenzene	SW8260B	NA	03/03/11	1	1.5	10	ND		ug/Kg	404137	NA
n-Butylbenzene	SW8260B	NA	03/03/11	1	2.2	10	ND		ug/Kg	404137	NA
1,2-Dichlorobenzene	SW8260B	NA	03/03/11	1	1.3	10	ND		ug/Kg	404137	NA
1,2-Dibromo-3-Chloropropane	SW8260B	NA	03/03/11	1	4.2	10	ND		ug/Kg	404137	NA
Hexachlorobutadiene	SW8260B	NA	03/03/11	1	2.6	10	ND		ug/Kg	404137	NA
1,2,4-Trichlorobenzene	SW8260B	NA	03/03/11	1	2.1	10	ND		ug/Kg	404137	NA
Naphthalene	SW8260B	NA	03/03/11	1	2.8	10	ND		ug/Kg	404137	NA
1,2,3-Trichlorobenzene	SW8260B	NA	03/03/11	1	2.9	10	ND		ug/Kg	404137	NA
(S) Dibromofluoromethane	SW8260B	NA	03/03/11	1	59.8	148	116		%	404137	NA
(S) Toluene-d8	SW8260B	NA	03/03/11	1	55.2	133	86.3		%	404137	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	03/03/11	1	55.8	141	129		%	404137	NA

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	1103016	**Prep Method:**	5035	**Prep Date:**	03/03/11	**Prep Batch:**	2170
Matrix:	Soil	**Analytical Method:**	8260TPH	**Analyzed Date:**	03/03/11	**Analytical Batch:**	404137
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH(Gasoline)	17	100	ND	
(S) 4-Bromofluorobenzene			87.8	

Work Order:	1103016	**Prep Method:**	NA	**Prep Date:**	NA	**Prep Batch:**	NA
Matrix:	Soil	**Analytical Method:**	SW8260B	**Analyzed Date:**	03/03/11	**Analytical Batch:**	404137
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	4.4	10	ND	
Chloromethane	4.6	10	ND	
Vinyl Chloride	2.6	10	ND	
Bromomethane	4.7	10	ND	
Trichlorofluoromethane	2.9	10	ND	
1,1-Dichloroethene	1.5	10	ND	
Freon 113	3.7	10	ND	
Methylene Chloride	2.0	10	ND	
trans-1,2-Dichloroethene	1.1	10	ND	
MTBE	2.6	10	ND	
tert-Butanol	21	50	ND	
Diisopropyl ether (DIPE)	2.2	10	ND	
1,1-Dichloroethane	1.3	10	ND	
ETBE	2.4	10	ND	
cis-1,2-Dichloroethene	1.8	10	ND	
2,2-Dichloropropane	1.2	10	ND	
Bromochloromethane	2.3	10	ND	
Chloroform	1.2	10	ND	
Carbon Tetrachloride	1.6	10	ND	
1,1,1-Trichloroethane	1.2	10	ND	
1,1-Dichloropropene	1.4	10	ND	
Benzene	1.5	10	ND	
TAME	2.1	10	ND	
1,2-Dichloroethane	1.9	10	ND	
Trichloroethylene	3.9	10	ND	
Dibromomethane	2.2	10	ND	
1,2-Dichloropropane	1.3	10	ND	
Bromodichloromethane	1.1	10	ND	
2-Chloroethyl vinyl ether	4.5	10	ND	
cis-1,3-Dichloropropene	1.4	10	ND	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	1103016	**Prep Method:**	NA	**Prep Date:**	NA	**Prep Batch:**	NA
Matrix:	Soil	**Analytical Method:**	SW8260B	**Analyzed Date:**	03/03/11	**Analytical Batch:**	404137
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Toluene	0.98	10	ND	
Tetrachloroethylene	1.8	10	ND	
trans-1,3-Dichloropropene	1.2	10	ND	
1,1,2-Trichloroethane	1.8	10	ND	
Dibromochloromethane	1.1	10	ND	
1,3-Dichloropropane	2.1	10	ND	
1,2-Dibromoethane	1.7	10	ND	
Ethyl Benzene	0.86	10	ND	
Chlorobenzene	4.2	10	ND	
1,1,1,2-Tetrachloroethane	0.86	10	ND	
m,p-Xylene	1.9	10	ND	
o-Xylene	0.66	5.0	ND	
Styrene	0.77	10	ND	
Bromoform	1.9	10	ND	
Isopropyl Benzene	1.2	10	ND	
n-Propylbenzene	1.4	10	ND	
Bromobenzene	1.2	10	ND	
1,1,2,2-Tetrachloroethane	3.0	10	ND	
1,3,5-Trimethylbenzene	1.1	10	ND	
1,2,3-Trichloropropane	3.3	10	ND	
4-Chlorotoluene	1.6	10	ND	
2-Chlorotoluene	1.6	10	ND	
tert-Butylbenzene	1.4	10	ND	
1,2,4-Trimethylbenzene	1.1	10	ND	
sec-Butyl Benzene	1.6	10	ND	
p-Isopropyltoluene	1.5	10	ND	
1,3-Dichlorobenzene	1.8	10	ND	
1,4-Dichlorobenzene	1.5	10	ND	
n-Butylbenzene	2.2	10	ND	
1,2-Dichlorobenzene	1.3	10	ND	
1,2-Dibromo-3-Chloropropane	4.2	10	ND	
Hexachlorobutadiene	2.6	10	ND	
1,2,4-Trichlorobenzene	2.1	10	ND	
Naphthalene	2.8	10	ND	
1,2,3-Trichlorobenzene	2.9	10	ND	
(S) Dibromofluoromethane			124	
(S) Toluene-d8			84.1	
(S) 4-Bromofluorobenzene			98.3	

Torrent LABORATORY, INC.

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1103016	**Prep Method:**	5035	**Prep Date:**	03/03/11	**Prep Batch:**	2170
Matrix:	Soil	**Analytical Method:**	8260TPH	**Analyzed Date:**	03/03/11	**Analytical Batch:**	404137
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH(Gasoline)	17	100	ND	1000	107	95.9	10.9	48.2 - 132	30	
(S) 4-Bromofluorobenzene			87.8	50	73.4	68.7		57 - 127		

Work Order:	1103016	**Prep Method:**	NA	**Prep Date:**	NA	**Prep Batch:**	NA
Matrix:	Soil	**Analytical Method:**	SW8260B	**Analyzed Date:**	03/03/11	**Analytical Batch:**	404137
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	1.5	10	ND	50	90.7	83.0	8.93	53.7 - 139	30	
Benzene	1.5	10	ND	50	105	103	1.65	66.5 - 135	30	
Trichloroethylene	3.9	10	ND	50	101	87.0	14.5	57.5 - 150	30	
Toluene	0.98	10	ND	50	86.6	83.5	3.62	56.8 - 134	30	
Chlorobenzene	4.2	10	ND	50	111	114	2.24	57.4 - 134	30	
(S) Dibromofluoromethane			ND	50	118	119		59.8 - 148		
(S) Toluene-d8			ND	50	79.0	80.8		55.2 - 133		
(S) 4-Bromofluorobenzene			ND	50	105	105		55.8 - 141		

Torrent LABORATORY, INC.

MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1103016	**Prep Method:**	NA	**Prep Date:**	NA	**Prep Batch:**	NA
Matrix:	**Soil**	**Analytical Method:**	SW8260B	**Analyzed Date:**	03/03/11	**Analytical Batch:**	404137
Spiked Sample:	1103016-007A						
Units:	ug/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	1.5	10	0	50	81.9	95.9	15.7	53.7 - 139	30	
Benzene	1.5	10	0	50	92.9	107	14.1	66.5 - 135	30	
Trichloroethylene	3.9	10	0	50	116	121	4.26	57.5 - 150	30	
Toluene	0.98	10	0	50	80.4	89.9	11.2	56.8 - 134	30	
Chlorobenzene	4.2	10	0	50	93.2	107	13.9	57.4 - 134	30	
(S) Dibromofluoromethane				50	123	127		59.8 - 148		
(S) Toluene-d8				50	80.4	85.6		55.2 - 133		
(S) 4-Bromofluorobenzene				50	118	135		55.8 - 141		

Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit (PQL) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - **mg/L** and ***mg/Kg*** (equivalent to PPM - parts per million in **liquid** and ***solid***), **ug/L** and ***ug/Kg*** (equivalent to PPB - parts per billion in **liquid** and ***solid***), **ug/m3**, ***mg.m3***, **ppbv** and ***ppmv*** (all units of measure for reporting concentrations in air), **%** (equivalent to 10000 ppm or 1,000,000 ppb), **ug/Wipe** (concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

LABORATORY QUALIFIERS:

B - Indicates when the anlayte is found in the associated method or preparation blank
D - Surrogate is not recoverable due to the necessary dilution of the sample
E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
H- Indicates that the recommended holding time for the analyte or compound has been exceeded
J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
NA - Not Analyzed
N/A - Not Applicable
NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative
X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.

Sample Receipt Checklist

Client Name: ERS (Santa Clara)

Project Name: 1015 Shoreline

Work Order No.: 1103016

Date and Time Received: 3/2/2011 15:32

Received By: NG

Physically Logged By: NG

Checklist Completed By: NG

Carrier Name: Client Droped off

Chain of Custody (COC) Information

Chain of custody present?	Yes
Chain of custody signed when relinquished and received?	Yes
Chain of custody agrees with sample labels?	Yes
Custody seals intact on sample bottles?	Not Present

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Not Present
Shipping Container/Cooler In Good Condition?	Yes
Samples in proper container/bottle?	Yes
Samples containers intact?	Yes
Sufficient sample volume for indicated test?	Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes			
Container/Temp Blank temperature in compliance?	Yes	Temperature:	10	°C
Water-VOA vials have zero headspace?	No VOA vials submitted			
Water-pH acceptable upon receipt?				
pH Checked by:	pH Adjusted by:			

Samples received in cooler with ice.

Torrent LABORATORY, INC.

Login Summary Report

Client ID: TL5157 ERS (Santa Clara)
Project Name: 1015 Shoreline
Project # :
Report Due Date: 3/9/2011

QC Level:
TAT Requested: 5+ day:0
Date Received: 3/2/2011
Time Received: 15:32

Comments: 5 day TAT! Received 8 soils @ 10'C for 8260. 4 soils On Hold.

Work Order # : ***1103016***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
1103016-001A	SB-1@surface	03/02/11 13:45	Soil	08/29/11			S_8260Full	
1103016-002A	SB-1@2.5-3	03/02/11 14:05	Soil	08/29/11	On-Hold		Hold Samples	
1103016-003A	SB-2@surface	03/02/11 14:15	Soil	08/29/11			S_8260Full	
1103016-004A	SB-2@2.5-3	03/02/11 14:30	Soil	08/29/11	On-Hold		Hold Samples	
1103016-005A	SB-3@surface	03/02/11 14:40	Soil	08/29/11			S_8260Full	
1103016-006A	SB-3@2 1/2-3	03/02/11 14:55	Soil	08/29/11	On-Hold		Hold Samples	
1103016-007A	SB-4@surface	03/02/11 15:00	Soil	08/29/11			S_8260Full	
1103016-008A	SB-4@2 1/2-3	03/02/11 15:10	Soil	08/29/11	On-Hold		Hold Samples	

Torrent LABORATORY, INC.

Torrent LABORATORY, INC.
483 Sinclair Frontage Road
Milpitas, CA 95035
Phone: 408.263.5258
FAX: 408.263.8293
www.torrentlab.com

CHAIN OF CUSTODY

• NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY •

LAB WORK ORDER NO: 1103016

Company Name: ERS Corp (Santa Clara) | Location of Sampling: 1015 Shoreline
Address: 2314 Walsh Ave | Purpose:
City: Santa Clara | State: CA | Zip Code: 95051 | Special Instructions / Comments:
Telephone: (408) 496-0807 FAX: (408) 496-0806
REPORT TO: J. Amendola / K. Price SAMPLER: J. Amendola | P.O. #: | EMAIL: jamendola@erscorp.us kprice@erscorp.us

TURNAROUND TIME: ☐ 10 Work Days ☐ 3 Work Days ☐ Noon - Nxt Day ☐ 7 Work Days ☐ 2 Work Days ☐ 2 - 8 Hours ☒ 5 Work Days ☐ 1 Work Day ☐ Other

SAMPLE TYPE: ☐ Storm Water ☐ Air ☐ Waste Water ☐ Other ☐ Ground Water ☒ Soil

REPORT FORMAT: ☐ QC Level IV ☐ EDF ☐ Excel / EDD

ANALYSIS REQUESTED

LAB ID	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	VOCs-8260									REMARKS
001A	SB-1@surface	3/2/2011-1:45pm	S	1	acetate liner	X									
002A	SB-1@2.5-3	3/2/2011-2:05pm	S	1		Hold									
003A	SB-2@surface	3/2/2011-2:15pm	S	1		X									
004A	SB-2@2.5-3	3/2/2011-2:30pm	S	1		HOLD									
005A	SB-3@surface	3/2/2011-2:45pm	S	1		X									0°C
006A	SB-3@2½-3	3/2/2011-2:55pm	S	1		HOLD									10
007A	SB-4@surface	3/2/2011-3:00pm	S	1		X									Torrent
008A	SB-4@2½-3	3/2/2011-3:10pm	S	1		HOLD									

TORRENT LAB

	Relinquished By:	Print:	Date:	Time:	Received By:	Print:	Date:	Time:
1	[signature]	Janelle Amendola	3/2/2011	3:32PM	[signature]	NAVIN G	3-2-11	3:32 PM
2	Relinquished By:	Print:	Date:	Time:	Received By:	Print:	Date:	Time:

Were Samples Received in Good Condition? ☑ Yes ☐ NO Samples on Ice? ☑ Yes ☐ NO Method of Shipment: D/off Sample seals intact? ☐ Yes ☐ NO ☑ N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made.

Log In By: Date: Log In Reviewed By: Date:

Page 1 of 1

INDEMNITY AGREEMENT

THIS INDEMNITY AGREEMENT ("***Agreement***") is entered into by and between **TEXACO INC.**, a Delaware corporation ("***Texaco***"), and The Roberta & Marco Bertozzi Family Trust ("***Owner***"). Texaco and Owner may hereinafter be referred to singularly as "Party" or jointly as "Parties".

RECITALS

A. Owner holds record title to those certain real properties located at 1005 and 1015 Shoreline Boulevard and 1150 Terra Bella Avenue, Mountain View, California (collectively, the "***Property***"), across Terra Bella Avenue from the former Texaco service station located at 975 N. Shoreline Boulevard (formerly known as 975 Stierlin Rd.), Mountain View, CA (the "***Station Property***");

B. Texaco has an open environmental case for the Station Property with the Santa Clara County Department of Environmental Health, Hazardous Materials Compliance Division, and the Santa Clara Valley Water District (collectively, the "***Agency***");

C. Texaco is currently performing environmental Work, as defined in Paragraph 5 (*Cleanup*) below, whereby Texaco, among other things, operates ground-water monitoring wells on the Property;

D. Owner has indicated its intention to market the Property to prospective buyers for valuable consideration and has asked Texaco to provide it with an indemnity that will run to subsequent owners;

E. Texaco has indicated it would be willing to provide Owner with the protections granted herein, which would be assignable to a buyer of the Property, provided Texaco was granted access to the Property to continue the Work, as defined in Paragraph 5 (*Cleanup*) below; and

F. Owner is willing to grant Texaco continued access to the Property for the above-described purposes.

TERMS AND CONDITIONS

NOW THEREFORE, in consideration of the foregoing and of the mutual promises set forth below, the Parties agree as follows:

1. EFFECTIVE DATE

This Agreement is effective upon the date last signed by a Party to the Agreement as evidenced below ("***Effective Date***").

2. REPRESENTATIONS

Owner warrants and represents that it will not operate a service station on the Property. In the event that Owner or its Successors (as defined in Paragraph 5(c) below) elects to operate a service station on the Property, in addition to any other remedies available to Texaco, Texaco's indemnity obligations under Paragraph 7 (*Indemnity*) shall terminate.

3. TERM

The license to access the Property granted herein shall terminate upon completion of the Work as defined in Paragraph 5 (*Cleanup*) below.

4. COVERED CONTAMINATION

As used herein, "***Covered Contamination***" means petroleum hydrocarbon and motor vehicle fuel additive contamination that: (a) originated from Texaco's operations and activities on the Station Property prior to the Effective Date; (b) must be remediated pursuant to applicable federal, state or local laws and regulations in effect on the Effective Date; and (c) is located on the Property on the Effective Date or has migrated from the Property.

5. CLEANUP

a) Texaco shall, at its sole cost and expense, perform or cause to be performed such investigation, monitoring, and cleanup of Covered Contamination, as may be validly directed by the Agency (the "***Work***"). Texaco shall have the right to challenge any Agency directive, order or request and not assume responsibility therefore if its challenge is based on a good faith belief that the contamination which is the subject of the directive, order or request does not meet the definition of Covered Contamination for which Texaco would be liable under this Agreement. Said Work may include, but not be limited to: (i) installation, maintenance, replacement, periodic sampling and abandonment of wells in compliance with all laws; (ii) installation, maintenance, replacement and removal of remediation or recovery systems and associated equipment; and (iii) other work deemed necessary by Texaco or the Agency.

b) Except as is otherwise provided in Paragraph 7 (*Indemnity*) below, Texaco's obligations under this Paragraph 5 shall cease when a no further action letter or its equivalent ("***NFA Letter***") is issued for the Property by Agency.

c) Texaco's obligation to cleanup the Covered Contamination shall extend to parties who take title to the Property, including institutional lenders, who may have obtained possession and title to the Property by way of default on a loan secured by the Property; and prior to the issuance of an NFA Letter or within fifteen (15) years of the Effective Date of this Agreement, whichever occurs first, ("***Successors***").

d) Texaco agrees to notify Owner in writing when it has completed the Work and when the NFA Letter is issued.

6. MANNER OF PERFORMANCE

a) The Work. Except as may otherwise be provided herein, Texaco shall perform the Work in a manner and at times which will not unreasonably interfere with Owner's use of the Property. Prior to the installation of any new equipment on the Property, Texaco and Owner shall work together to determine the appropriate location for the new equipment. Owner agrees to cooperate with Texaco, including the execution of additional documents, if necessary, in order to obtain permits or other documents from the Agency required to install, abandon or remove Texaco's equipment.

b) Access Rights Granted. As of the Effective Date, Owner hereby grants to Texaco, its employees, agents, representatives, consultants and contractors, a continued license over, under and across the Property for the purpose of performing the Work. The foregoing grant is subject and subordinate to the prior and continuing right and obligation of Owner and its licensees and lessees to use and maintain the Property which may be freely done at any time by Owner and its licensees and lessees without liability to Texaco or to any other party for compensation or damages. With the exception of routine maintenance of Texaco's equipment on the Property which shall not unreasonably interfere with Owner's and its licensees' and lessees' use of the Property, Texaco shall provide Owner with advance notice of its

intended schedule for access. Texaco shall not unreasonably interfere with the Owner's and its licensees' and lessees' constant, continuous and uninterrupted use of the Property at any time.

c) Agency Communications. Each Party shall promptly provide the other with copies of all final reports, laboratory test results, and other communications submitted to the Agency. If Owner shall for any reason request a meeting with any Agency regarding the Property or the performance of the Work, Owner shall provide Texaco with reasonable advance notice of any such requested meeting, such that Texaco may attend. Owner shall not communicate in writing to any Agency without first providing a copy of such written communication to Texaco at least ten (10) days in advance of the submission to the intended written communication to the Agency.

d) Notice to Texaco Prior to Construction. While Texaco is obligated to perform the Work pursuant to the terms of this Agreement, Owner shall give Texaco reasonable advance notice of any change in the intended use of the Property and/or construction plans.

e) Compliance. Texaco agrees, at its sole cost and expense, to conduct and perform the Work in a prompt, safe, efficient and workmanlike manner and in compliance with all Agency requirements.

f) Restoration. If entry onto the Property by Texaco, or exercise by Texaco of any of its rights or obligations under this Agreement, result in any physical damage to the Property (ordinary wear and tear excepted), Texaco shall promptly repair and restore the portions of the Property damaged to substantially the same condition as existed prior to the damage or exercise of such right or obligation.

7. INDEMNITY

a) Texaco agrees to indemnify, defend and hold Owner harmless from and against any liabilities, damages, costs, or losses arising from: (i) claims or lawsuits by third parties relating to the Covered Contamination or the performance of the Work by Texaco on the Property; and (ii) an Agency (or other governmental authority) demand or requirement to perform an investigation or cleanup action for Covered Contamination. Texaco shall not be responsible for any liabilities, damages, costs, or losses to the extent caused by the reckless, negligent or intentional acts or omissions of any Party asserting any right under this Paragraph 7. In the event underground storage tanks are installed on the Property subsequent to the date Texaco vacated the Property and the NFA Letter was issued, this indemnity is voided for any claims arising after the date of said tank installation.

b) Except as otherwise specified below, Texaco's indemnity obligation shall extend to Successors, as defined in Paragraph 5(c) (*Cleanup*).

c) Texaco shall not be liable to Owner or Successors for (i) any such claims described in Texaco's indemnity under Paragraph 7(a) if, and to the extent such claims are attributable to or arise from exacerbation of Covered Contamination resulting from construction on the Property by Owner or its Successors following the Effective Date of this Agreement that involve subsurface excavation, soil movement, or special handling, treatment or disposal of groundwater, or (ii) special, incidental or consequential damages including, without limitation, construction delays, loss of business, diminution in the value of the Property, or loss of goodwill by Owner or Successors.

d) Any Party claiming a right to be indemnified by Texaco under this Agreement shall not be entitled to such indemnification unless: (i) said Party agrees in writing to be bound by the terms of this Agreement; and (ii) after receiving notice of any such claim described in Texaco's indemnity under Paragraph 7(a), said Party provides Texaco with reasonable advance written notice of the claim and a demand that Texaco honor its indemnity obligations.

e) Any person benefiting from the indemnification set forth in this Paragraph 7, at any point in time, shall be deemed not to be a third person or third party.

8. LIENS

Texaco shall bear any and all costs and expenses associated with the Work. Texaco shall discharge at once or bond or otherwise secure against all liens and attachments that are filed in connection with the Work, and shall indemnify and save Owner and the Property harmless from and against any and all loss, damage, injury, liability and claims thereof resulting directly from such liens and attachments.

9. NOTICES

Any notices required to be made under this Agreement shall be made in writing to the address of the appropriate Party as set forth below. All such notices shall be deemed to have been duly given and received upon mailing, delivery by courier or personal delivery service, or by email, provided that email delivery shall be effective when the sender has received an electronic confirmation of delivery. Parties may alter or modify their notice address by delivery of written notice pursuant to the terms of this Agreement.

To Texaco: Chevron Environmental Management Company
Marketing Business Unit
6111 Bollinger Canyon Road, Room 3604
San Ramon, CA 94583
Attn.: Kelly C. Esters
Phone: (925) 543-2376
Fax: (925) 543-2346
Email: KEsters@Chevron.com

To Owner: The Bertozzi Family Trust
c/o Sal Maleti Real Estate
349 Gault Street
Santa Cruz, CA 95062
Attn: Salvatore Joseph Maleti, II
Phone: (831) 423-0357
Fax: (831) 426-3347
Email: cwasal@aol.com

10. APPLICABLE LAW

This Agreement shall be interpreted, and any dispute arising hereunder shall be resolved, in accordance with the substantive laws of the State of California, without reference to choice of law rules.

11. ALTERNATIVE DISPUTE RESOLUTION (ADR)

If a dispute arises between the Parties relating to this Agreement, the Parties agree to use the following procedure prior to pursuing other legal remedies:

a) A meeting among the Parties shall promptly be held in California, attended by individuals with decision-making authority regarding the dispute, who will attempt in good faith to negotiate a resolution of the dispute.

b) If within fifteen (15) days after the meeting, the Parties have not succeeded in negotiating a resolution of the dispute, they agree to submit the dispute to mediation using a mediator who is mutually acceptable, and to bear equally the costs of the mediation.

c) The Parties agree to participate in good faith in the mediation process related to their dispute for a period of thirty (30) days from the commencement of mediation. If the Parties are not successful in resolving the dispute through mediation, then:

(i) the Parties may agree to submit the matter to binding arbitration or a private adjudication; or

(ii) either Party may initiate litigation upon ten (10) days advance written notice to the other Party.

12. COUNTERPARTS

This Agreement may be executed in counterparts, each of which together shall constitute one and the same agreement.

13. INTEGRATION

This document represents the entire agreement between the Parties. No modification of the terms hereof shall be effective unless in writing and duly executed by the authorized representatives of the respective Parties.

14. MUTUALLY DRAFTED AGREEMENT

This Agreement has been negotiated at arm's-length and between Parties represented by counsel. Accordingly, any rule or law (including California Civil Code §1635 et seq.) or legal decision that would require interpretation of any ambiguities in this Agreement against the Party that has drafted the applicable provision is not applicable and is waived. The provisions of this Agreement shall be interpreted in a reasonable manner to affect the purpose of the Parties and this Agreement.

15. NO ADMISSION OF LIABILITY

The Parties acknowledge and agree that neither this Agreement, the act of entering into it, or any act or omission pursuant hereto shall be construed as an admission of any nature.

16. CAPTIONS

The captions and headings used throughout this Agreement are for convenience or reference only, and the words contained therein shall in no way be held or deemed to define, limit, describe, explain, modify, amplify or aid in the interpretation, consideration or meaning of any provisions or the scope or the intent of this Agreement.

17. SEVERABILITY

If any part, clause or condition of this Agreement is held by a court of competent jurisdiction to be invalid, void or unenforceable, the remainder of the provisions shall remain in full force and effect and shall in no way be affected, impaired or invalidated; provided, however, in no event shall either Party be deprived of a material consideration by operation of this provision.

18. FIDUCIARY RELATIONSHIP

Texaco shall not for any reason, in the performance of the Work required by the terms of this Agreement, be considered to have a fiduciary relationship with Owner.

19. COMPLIANCE WITH LAWS

Throughout the term of this Agreement, Texaco and Owner shall at all times comply fully with all applicable laws, ordinances, rules, and regulations of any governmental agency having jurisdiction over the Property.

20. BINDING EFFECT

Subject to the limitations set forth in Paragraphs 5 (*Cleanup*) and 7 (*Indemnity*), this Agreement shall be binding upon and inure to the benefit of the Parties hereto and their respective heirs, successors and assigns. Owner shall promptly notify Texaco of any transfer of its interest in the Property and shall provide a copy of this Agreement to any and all transferees.

21. WARRANTY OF AUTHORIZED SIGNATORIES

Each of the signatories hereto warrants and represents that he or she is competent and authorized to enter into this Agreement on behalf of the Party for whom he or she purports to sign.

IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed as of the last date set forth below.

TEXACO:

TEXACO INC., a Delaware corporation

By: Frank G. Soler

Name: Frank G. Soler

Its: Vice President and Secretary

Dated: 9 March 2009

OWNER:

The Roberta & Marco Bertozzi Family Trust

By: Marco Albert Bertozzi

By: Roberta Bertozzi

By: Annette Harvey

Dated: February 26, 2009

October 11, 2013

Calvano Development
900 Bush Street, Penthouse 1
San Francisco, CA 94109

Attn: Mark Calvano

Re: Phase I Environmental Site Assessment Conclusion Letter
1023 Shoreline Blvd.
Mountain View, CA

Dear Mr. Calvano:

Thank you for providing Applied Water Resources Corporation (AWR) the opportunity to assist you in identifying the environmental issues at 1023 Shoreline Blvd., in Mountain View, California.

The site is a two-story office building on an approximately ¾-acre rectangular parcel. The building was constructed in approximately 1974. Prior to this, the site appears to have been used as orchards and residences since at least 1939.

The building appears to have been used as offices since their initial construction. No indication of non-office use of the building was observed during the site reconnaissance or discovered during our historical research for this Phase I ESA.

The only hazardous materials observed at the site were routine janitorial and maintenance materials. No evidence of significant former hazardous material use or storage tanks were observed at the site.

A monitoring well was installed near the northern edge of the property in 1990 for the investigation associated with a release of gasoline from former underground storage tanks at the former Texaco Station at 975 Shoreline Blvd (at the southwest corner of the intersection of North Shoreline Boulevard and Terra Bella Avenue). The monitoring well was located near the property line dividing the subject parcel from 1043 North Shoreline Blvd., approximately 30 feet into the property from Shoreline Boulevard. Sampling conducted from 1990 through 1992 revealed

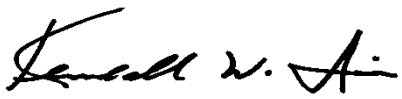
significant gasoline impacts in the groundwater samples from the well at the subject site. When the remediation activities began at the subject site, the concentrations decreased. Between 1992 and 1994, the concentrations in the samples collected from the well at the site dropped significantly and stabilized at lower concentrations. From 2002 until the release investigation was closed and the well was properly abandoned, no impacts were detected in any of the groundwater samples collected from the monitoring well at the site during 30 separate groundwater monitoring events. The subject site was never named as a possible source of the impacts and the source release has been closed. This is classified as a Historical Recognized Environmental Condition (HREC) since the impacts have been mitigated, the subject site no longer appears to be impacted, and the release investigation has been closed indicating it has been resolved to the satisfaction of the overseeing regulatory agency. No additional investigation is recommended with regards to the former monitoring well or historical impacts in the groundwater samples collected from the well.

The site is near but does not appear to be impacted by several known solvent releases impacting groundwater over a large area west of Shoreline Boulevard. The sources and responsible parties for the regional plumes are known and the investigation and remediation is ongoing. The subject site was never named as a possible source of the impacts and does not appear to have been significantly impacted by the regional solvent plumes. No additional investigation is recommended with regards to the regional solvent plumes.

Based on the age of the building, there is a potential asbestos-containing materials and/or lead based paint are present in the building. Although this is not a recognized environmental condition (REC) as defined by the ASTM Standard Practice, any renovation or demolition must comply with applicable regulations regarding asbestos-containing materials and lead based paint including appropriate testing and if required, mitigation.

AWR looks forward to working with you on this project. Please contact me at 408.496.0801 or at kprice@erscorp.us if you have any questions or comments.

Best Regards
APPLIED WATER RESOURCES CORPORATION



Kendall W. Price CEG, REA
Principal Consultant/Regional Manager

PHASE I ENVIRONMENTAL SITE ASSESSMENT

1023 Shoreline Blvd.
Mountain View, California

October 10, 2013

Prepared For:

Calvano Development
900 Bush Street, Penthouse 1
San Francisco, CA 94109

APPLIED WATER RESOURCES

EXECUTIVE SUMMARY

Consultant:	Applied Water Resources Corporation (AWR)
Subject Property:	1023 Shoreline Blvd., Mountain View, California
Client:	Calvano Development
Location:	The site address is 1023 Shoreline Blvd., Mountain View, Santa Clara County, California. The site consists of one approximately 0.75 acre parcel. The site is located on the eastern side of Shoreline Blvd on the block south of Interstate 101. The site is referenced as Santa Clara County Assessor's Parcel Number 153-15-017.
Current Use:	The site is improved with a two-story office building totaling approximately 13,000 square feet. The property is occupied by several different office tenants.
Current Owner:	The property is currently owned by The Cooke Co., who has owned the property since 1986.
Site Characteristics:	The property is approximately ¾-acre and is improved with a two story office building. There is no elevator in the building. The remainder of the site is paved parking areas with landscaping near the building and around the property perimeter.
Vicinity Characteristics:	The property is in a mixed commercial and light industrial within the City of Mountain View, California.
Purpose:	This Phase I Environmental Site Assessment (ESA) was performed to (1) identify any recognized environmental conditions (RECs), and (2) permit a user to satisfy one of the requirements to qualify for the innocent landowner defense under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)

liability protection (42 U.S.C. §9601). All components of this ESA were performed or overseen by Environmental Professionals as defined in the All Appropriate Inquiries (AAI) Standard and the American Society for Testing and Materials (ASTM) E 1527-05.

Conclusions:

A monitoring well was installed near the northern edge of the property in 1990 for the investigation associated with a release of gasoline from former underground storage tanks at the former Texaco Station at 975 Shoreline Blvd (at the southwest corner of the intersection of North Shoreline Boulevard and Terra Bella Avenue). The monitoring well was located near the property line dividing the subject parcel from 1043 North Shoreline Blvd., approximately 30 feet into the property from Shoreline Boulevard. Sampling conducted from 1990 through 1992 revealed significant gasoline impacts in the groundwater samples from the well at the subject site. When the remediation activities began at the subject site, the concentrations decreased. Between 1992 and 1994, the concentrations in the samples collected from the well at the site dropped significantly and stabilized at lower concentrations. From 2002 until the release investigation was closed and the well was properly abandoned, no impacts were detected in any of the groundwater samples collected from the monitoring well at the site during 30 separate groundwater monitoring events. The subject site was never named as a possible source of the impacts and the source release has been closed. This is classified as a Historical Recognized Environmental Condition (HREC) since the impacts have been mitigated, the subject site no longer appears to be impacted, and the release investigation has been closed indicating it has been resolved to the satisfaction of the overseeing regulatory agency. No additional investigation is recommended with regards to the former monitoring well or historical impacts in the groundwater samples collected from the well.

The site is near but does not appear to be impacted by several known solvent releases impacting groundwater over a large area west of Shoreline Boulevard. The sources and responsible parties for the regional plumes are known and the investigation and remediation is ongoing. The subject site was never named as a possible source of the impacts and does not appear to have been significantly impacted by the regional solvent plumes. No additional investigation is recommended with regards to the regional solvent plumes.

Based on the age of the building, there is a potential asbestos-containing materials and/or lead based paint are present in the building. Although this is not a recognized environmental condition (REC) as defined by the ASTM Standard Practice, any renovation or demolition must comply with applicable regulations regarding asbestos-containing materials and lead based paint including appropriate testing and if required, mitigation.

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1.0 INTRODUCTION

On behalf of Calvano Development (hereinafter referred to as the "Client"), Applied Water Resources Corporation (AWR), performed a Phase I Environmental Site Assessment (ESA) of the property located at 1023 Shoreline Blvd., Mountain View, Santa Clara County, California (hereinafter referred to as the "subject property").

1.1 Purpose

This ESA was performed to provide a record of the site conditions at the subject property and to evaluate what, if any, recognized environmental conditions exist at this site. Additional goals of this ESA are to identify recognized environmental conditions (RECs) from current and historical practices on the subject property and surrounding area and to assist the Client to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations from Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) liability.

1.2 Detailed Scope of Services

The following tasks were performed in accordance with the Scope of Services.

- Visual site inspection of the subject property to investigate for recognized environmental conditions. AWR is not responsible for inspecting areas covered by parked vehicles, overgrown vegetation, and other obstacles preventing access.

- A historical review of the use and improvements of the subject property through a review of aerial photographs, historical topographic maps, city directories, fire insurance maps, title reports, and/or building department records.

- A review of available geologic and hydrogeologic literature concerning the property and surrounding area.

- Interviews of persons familiar with the history of the subject property, including key site managers, owners, tenants, past tenants, and/or previous owners.

- Review of appropriate federal, state, and local regulatory agencies to reveal known hazardous wastes sites or significant leaks or spills of hazardous materials that may have occurred at the subject property and immediate vicinity.

- Interviews with applicable local agencies familiar with the areas in the vicinity of the subject property such as local fire departments, health departments, Regional Water Quality Control Board, and/or other local government agencies.

1.3 Significant Assumptions

No significant assumptions were made during this Phase I ESA.

1.4 Limitations and Exceptions of Agreement

AWR has performed the services for this project in accordance with our proposal, and within the current standards of the American Society for Testing and Materials (ASTM 1527-05) for Phase I Environmental Site Assessments and the standards for All Appropriate Inquiries (AAI) approved by the Federal Environmental Protection Agency. Except for the representations set forth in this Phase I ESA, no other representations, guarantees, or warrantees are either expressed or implied. A record search was limited to reasonably ascertainable information that could be obtained within 20 calendar days.

The review was limited to a search for RECs at the subject property. The term REC means the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimus* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

There is no investigation that is thorough enough to preclude the presence of hazardous materials that presently, or in the future, may be considered hazardous at the site. Because regulatory evaluation criteria are constantly changing, concentrations of contaminants presently considered low may, in the future, fall under more stringent regulatory standards that require remediation.

The Site Reconnaissance was limited to visual observation of surface conditions at the subject property. Interviews with public agency personnel were conducted. Reasonably ascertainable information was reviewed. This approach reflects current ASTM standards and AAI regulations.

Where there is a conflict between the environmental database and AWR's actual knowledge with regard to the distance and direction from the subject property of sites listed on the database, information obtained by AWR from the site reconnaissance was used. Whenever feasible, AWR notes such conflict within the text of the report.

This ESA addresses recognized environmental conditions at the subject property. However, certain conditions, such as those listed below may not be revealed:

1) naturally occurring toxic materials in subsurface soils, rocks, or water, or toxicity of onsite flora;
2) toxicity of substances common in current habitable environments, such as stored household products, building materials, and consumables;
3) biological pathogens;
4) contaminant plume below the depths sampled or from remote source;
5) contaminants or contaminant concentrations that do not violate present regulatory standards, but may violate future standards; and
6) unknown site contamination, such as illegal dumping and/or accidental spillage which may occur following the site visit by AWR.

Opinions and judgments expressed herein, which are based on our understanding and interpretation of current regulatory standards, should not be construed as legal opinions. This document and the information contained herein have been prepared solely for the Client and any reliance on this report by third parties not authorized by the Client shall be at such party's sole risk.

Conducting an AAI Phase I ESA alone does not provide a landowner with protection against CERCLA liability. Landowners who want to qualify as bona fide prospective purchasers or contiguous property owner must comply with all of the statutory requirements identified in CERCLA Section 107(r) and 107(q).

1.5 Special Terms and Conditions

No special terms or conditions were agreed upon for conducting this Phase I ESA.

1.6 User Reliance

As specified in ASTM E 1527-05, Sections 7.5.2 and 7.5.2.1, AWR is not required to independently verify the information provided by the User (Client), obtained from interviews, previous environmental reports, and/or reviewed documents during records review.

2.0 SITE DESCRIPTION

2.1 Site Location

The site address is 1023 Shoreline Blvd., Mountain View, Santa Clara County, California. The site consists of one approximately ¾ acre parcel. The site is located on the eastern side of Shoreline Blvd, on the block south of Interstate 101. The site is referenced as Santa Clara County Assessor's Parcel Number 153-15-017.

2.2 Site and Vicinity General Characteristics

The property is in a mixed commercial and light industrial area within the City of Mountain View, California.

2.3 Current and Proposed Use of the Property

The property is improved with a two story office building divided into multiple tenant spaces.

It is our understanding Calvano Development is proposing to purchase the site. No information on proposed use of the property was provided to AWR.

2.4 Description of Structures, Road, and Other Improvements

The site is a two-story office building on an approximately ¾-acre rectangular parcel. The building was constructed in approximately 1974.

The remainder of the site is occupied by asphalt parking and driving areas, sidewalks to and around the building, and landscaping near the building and around the property perimeter.

The site is a rectangular shaped parcel located on the eastern side of Shoreline Blvd and is accessed from Shoreline Boulevard with connected parking lots to 1043 Shoreline Blvd north of the site and properties on Linda Vista east of the site.

The subject property is connected to the municipal water and sanitary and storm sewer systems.

2.5 Current Uses of the Adjoining Properties

The property is in a mixed use area. North of the site is an office building. The remaining adjacent properties appear to be light industrial.

3.0 USER PROVIDED INFORMATION

3.1 Title Records

An Environmental Liens Search was performed by EDR as a part of this Phase I ESA. The lien search, including the most recent grant deed, is included in Appendix J. No additional title information was provided by the user.

3.2 Environmental Liens or Activity and Use Limitations

The Environmental Professional is required to search for Activity and Use Limitations (AULs) if such records are available in *"publicly available lists or registries."* Typical AULs include land use restrictions (LURs), institutional controls (ICs), and Engineering Controls (ECs). Typical ICs include: 1) governmental controls such as zoning; 2) proprietary controls such as covenants or easements; 3) enforcement documents such as orders or

consent decrees; and 4) information devices such as land record or deed notices. Typical ECs include: 1) passive measures such as vapor barriers and setbacks; 2) active measures such as remediation systems; and 3) monitoring of passive and/or active measures. According to 40 CFR Part 312.26 (b) (7), ICs are to be investigated on the subject property and according to 40 CFR Part 312.26 (b) (6) and (c) (2) (ii), ECs are to be reviewed to a 0.5 mile radius of the subject property. ASTM 1527-05 recommends that ECs be reviewed only for the subject property.

An Environmental Liens Search was performed for the subject property. The Environmental Liens Search did not report any environmental liens associated with the subject property.

3.3 Specialized Knowledge

AWR was not informed of any specialized knowledge associated with the subject property or the area in the vicinity of the subject property.

3.4 Commonly Known or Reasonably Ascertainable Information

AWR was did not discover any commonly known or reasonable ascertainable information associated with the subject property or the area in the vicinity of the subject property.

3.5 Valuation Reduction for Environmental Issues

AWR was not provided with purchase price information.

3.6 Owner, Property Manager, and Occupant Information

The property is currently owned by The Cooke Co, who has owned the property since 1986.

The property is occupied by several different office tenants.

No property manager was identified to AWR.

3.7 Reason for Performing the Phase I ESA

AWR has performed this Phase I ESA in preparation of a proposed property transfer.

3.8 Previous Reports

AWR was not provided with any previous reports for the subject site.

4.0 RECORDS REVIEW

The government environmental agency databases AWR reviewed are listed on pages 4 through 7 of the Map Findings Summary of the database obtained from Environmental Data Resources, Inc. (EDR), included as Appendix C. Please refer to the EDR report in Appendix C for additional information on the searched databases including the full names of the databases, the regulatory agency overseeing the databases, a summary of the types of facilities listed on each database, and the dates the information was obtained from the regulatory agencies. Where locations and distances reported by EDR were observed to be incorrect, AWR amended the information to provide a more accurate assessment.

AWR also requested information from the San Francisco Bay Regional Water Quality Control Board, the Santa Clara County Environmental Health Department, the Santa Clara Valley Water District, the Mountain View Fire Department, and the California Department of Toxic Substance Control Envirostor database. Information from these sources for the subject site is included in Section 4.1.1. Information on nearby releases is included in Section 4.1.2.

4.1 Standard Environmental Record Sources

4.1.1 Subject Property

The site address was not listed on any of the searched databases.

AWR also requested information from the San Francisco Bay Regional Water Quality Control Board, the Santa Clara County Environmental Health Department, the Santa Clara Valley Water District, the Mountain View Fire Department, and the California Department of Toxic Substance Control Envirostor database.

<u>Mountain View Fire Department</u>
AWR reviewed files for the site at the Mountain View Fire Department. The Mountain View Fire Department is the Certified Unified Program Agency (CUPA) for properties in

Mountain View. As a CUPA, the Mountain View Fire Department is responsible for implementing the following programs: Above Ground Storage Tanks, California Accidental Release Prevention Program (CalARP), Hazardous Materials Management Plans/Business Plans, Hazardous Waste Generator, On Site Treatment of Hazardous Wastes, and Underground Storage Tanks. The Mountain View Fire Department had no record of hazardous materials or underground storage tanks at the site. The only information available from the Mountain View Fire Department was life safety records such as sprinklers and fire extinguishers.

Santa Clara County Environmental Health Department

AWR reviewed files at the Santa Clara County Environmental Health Department Leaking Underground Storage Tank Oversight Program (LUSTOP). There were no release files for the subject site address. Files reviewed for nearby releases potentially impacting the site are discussed in Section 4.1.2.

California Department of Toxic Substance Control

AWR reviewed files at the California Department of Toxic Substance Control Envirostor database. There were no release files for the subject site address. Files reviewed for nearby releases potentially impacting the site are discussed in Section 4.1.2.

Regional Water Quality Control Board

AWR reviewed files at the Regional Water Quality Control Board Geotracker database. There were no release files for the subject site address. Files reviewed for nearby releases potentially impacting the site are discussed in Section 4.1.2.

US EPA Region 9

AWR reviewed files available online for the US Environmental Protection Agency (EPA) Region 9 Superfund sites. There were no release files for the subject site address. Files reviewed for nearby releases potentially impacting the site are discussed in Section 4.1.2.

4.1.2 Offsite Listings

Based upon a review of groundwater monitoring data collected at nearby release investigations, groundwater beneath the subject property was calculated to flow toward the north and was encountered at depths ranging from 4 to 16 feet below ground surface (bgs). Based on this inferred groundwater flow direction, offsite listings that are adjacent to or south of the subject site have the greatest potential to impact the subject site. The sites of note are discussed below:

- There are six federal national priority list (NPL) sites, also known as Superfund sites, within one mile of the site including two which are within ¼-mile of the site. The NPL listings are Moffett Naval Air Station, Intel Corp (Mountain View Plant) Teledyne Semiconductor, Spectra-Physics, Inc., Jasco Chemical Corp., and CTS Printex, Inc. The NPL listings are primarily for releases of solvents and several of the plumes are mingled. In addition, there are several state-overseen releases that have contributed to the regional impacts. AWR reviewed information in the EDR report as well as additional information obtained from EPA Region 9, California DTSC, and the RWQCB. Based on our review of the information, the site is near but does not appear to be impacted by several known solvent releases impacting groundwater over a large area. It appears that the intermingled plumes are primarily west of Shoreline Boulevard. The sources and responsible parties for the regional plumes are known and the investigation and remediation is ongoing. The subject site was never named as a possible source of the impacts and does not appear to have been significantly impacted by the regional solvent plumes.

- Texaco (CVX #21-1179) at 975 Shoreline Blvd (formerly known as Sterlin Road) was identified on the CA LUST and CA HIST LUST databases. These are databases that list facilities that have had releases from underground storage tanks. AWR obtained additional information on this release from the Santa Clara County Environmental Health Department LUSTOP program. A monitoring well was installed near the southern edge of the subject site in 1990 for the investigation associated with a release of gasoline from former underground storage tanks at the former Texaco Station at 975 Shoreline Blvd (at the southwest corner of the intersection of North Shoreline Boulevard and Terra Bella Avenue). The monitoring well was located near the property line dividing the subject parcel from 1023 North Shoreline Blvd., approximately 30 feet into the property from Shoreline Boulevard. Sampling conducted from 1990 through 1992 revealed significant gasoline impacts in the groundwater samples from the well at the subject site. When the remediation activities began at the subject site, the concentrations decreased. Between 1992 and 1994, the concentrations in the samples collected from the well at the site dropped significantly and stabilized at lower concentrations. From 2002 until the release investigation was closed and the well was properly abandoned, no impacts were detected in any of the groundwater samples collected from the monitoring well at the site during 30 separate groundwater monitoring events. The subject site was never named as a possible source of the impacts and the source release has been closed. This is classified as a

Historical Recognized Environmental Condition (HREC) since the impacts have been mitigated, the subject site no longer appears to be impacted, and the release investigation has been closed indicating it has been resolved to the satisfaction of the overseeing regulatory agency. No additional investigation is recommended with regards to the former monitoring well or historical impacts in the groundwater samples collected from the well.

- Robb-Jack Corp. at 1080 Linda Vista was identified on the CA LUST and CORTESE databases. These are databases that list facilities that have had releases from underground storage tanks. AWR obtained additional information on this release from the Santa Clara County Environmental Health Department LUSTOP program. Based on our review of the information, groundwater impacts appear to have been minimal and it does not appear that this release impacted the subject site. The release was closed in 1996 indicating no additional investigation or remediation is required.

Based on the distance, direction, and/or nature of the remaining listings, in our opinion, none of the other listings are likely to impact the subject site.

4.1.3 Other Sites of Potential Environmental Concern

AWR did not identify any other sites of environmental concern. AWR reviewed the sites in the EDR Database that were unable to be mapped. None of the listings appeared to correspond to the site or adjacent properties. None of the listings appear likely to have the potential to impact the site.

4.2 Additional Environmental Record Sources

AWR reviewed information on this site from the Mountain View Fire Department, the California Department of Toxic Substance Control (DTSC) Envirostor database, the Santa Clara County Environmental Health Department LUSTOP program, the California Geotracker Database, and US EPA. Information from these sources for the subject site was discussed in Section 4.1.1. Information from these sources on the nearby properties was included in Section 4.1.2.

4.3 Physical Setting Sources(s)

The EDR Report in Appendix C indicates that the underlying hard rock geology consists of Cenozoic Quaternary stratified sequence. Surface soils in the vicinity of the site are classified by the United States Department of Agriculture (USDA) Soil Conservation Service (SCS) as Botella clay loam.

Based upon a review of groundwater monitoring data collected at nearby release investigations, groundwater beneath the subject property was calculated to flow toward the north and was encountered at depths ranging from 4 to 16 feet below ground surface (bgs).

Current site-specific information on groundwater flow direction, depth, and quality can only be confirmed through the installation and survey of a minimum of three on-site groundwater-monitoring wells, which was beyond the scope of this assessment.

According to the 1999 USGS Mountain View, California Quadrangle Map, the site elevation is approximately 36 feet above mean sea level with a slight regional topographic slope downward to the north.

4.4 Historical Use Information on the Property

AWR reconstructed a brief history of the subject property through a review of historical Topographic Maps; the EDR City Abstract; available records, permits and other documents available at Santa Clara County; and historical aerial photographs provided by EDR. A summary of historical sources can be found in Section 12.0 of this Report with pertinent documents available in Appendices.

According to historical sources, the subject property appears to have been used as orchards and residences since at least 1939 through approximately 1974 when the existing building was constructed at the site and the remainder of the property was improved similar to its current configuration. .The building appears to have been used as offices since its initial construction.

4.5 Historical Use Information on Adjoining Properties

The surrounding properties were primarily agricultural fields until being developed with light industrial development in the late 1960s and early 1974s.

5.0 SITE RECONNAISSANCE

The goal of the site reconnaissance is to obtain information indicating the likelihood of identifying RECs in connection with the subject property. The subject property is visually observed and any structures located on the property are observed to the extent not obstructed by bodies of water, adjacent buildings, and/or other obstructions.

5.1 Methodology and Limiting Conditions

The exterior site reconnaissance was performed by walking open areas of the property in a grid fashion. Special attention was given to observe surfaces adjacent to the structures and sidewalks, surfaces in storage areas, and potential conduits to the subsurface such as drains and sumps. The interior site reconnaissance was performed by systematically observing each room and open space of the property. Additional attention was given to doors, utility rooms, storage areas, areas where hazardous materials were used or stored, and any other accessible areas.

5.2 General Site Setting

On September 18, 2013, Ms. Janelle Amendola of AWR conducted a site reconnaissance at the subject property. Ms. Amendola was accompanied by Mr. Ted Eyre, the broker representing the current property owner during the site visit.

5.3 Exterior Observations

The majority of the site is occupied by the building and asphalt parking and drive areas with landscaping near the building and around the property perimeter. The site shares a common exterior area north of the building with the adjacent property at 1043 Shoreline.

No staining, stressed vegetation, or unusual odors were observed at the site.

5.4 Interior Observations

The building was used as offices for several tenants at the time of the site assessment. No indication of current or former non-office use of the building was observed during the site reconnaissance.

The only hazardous materials observed at the site were routine janitorial and maintenance materials. No evidence of significant former hazardous material use or storage tanks were observed at the site.

There are no elevators in the site building.

No staining, stressed vegetation, or unusual odors were observed at the site.

5.4 Non-Scope Items

The following non-scope items were included as part of this Report based on readily available information that was reviewed.

5.4.1 Suspect Asbestos Containing Building Materials and Lead-Based Paint

Based on the age of the buildings, there is a potential that asbestos containing materials and/or lead based paint have been used at the site. A full survey should be completed prior to any demolition or renovation of the building at the site.

5.4.2 Radon

No radon survey was conducted. According to the EDR report, Santa Clara County is in zone 2, indicating the average indoor level is between 2 and 4 picocuries per liter (pCi/L). The US Environmental Protection Agency (USEPA) action level is 4 pCi/L.

6.0 INTERVIEWS

6.1 Interview with Owner Representative

AWR interviewed Mr. Ted Eyre, the broker representing the current property owner. Mr. Eyre has represented the property owner and this building for more than 20 years. Mr. Eyre provided information on the site development and current and former site tenants and operations.

6.2 Interview with Site Manager

No Site Manager was identified.

6.3 Interviews with Occupants

AWR conducted informal interviews with the site occupants during the site reconnaissance. Given that the current occupants only use the building for offices, formal interviews were not conducted.

6.4 Interviews with Local Government Officials

AWR reviewed information from the Mountain View Fire Department, the Santa Clara County Environmental Health Department, the San Francisco Bay Regional Quality Control Board, and the California Department of Toxic Substance Control. Information from these requests is presented elsewhere throughout this report.

6.5 Interviews with Others

AWR did not perform any interviews with others regarding the subject property.

7.0 FINDINGS

A monitoring well was installed near the northern edge of the property in 1990 for the investigation associated with a release of gasoline from former underground storage tanks at the former Texaco Station at 975 Shoreline Blvd (at the southwest corner of the intersection of North Shoreline Boulevard and Terra Bella Avenue). The monitoring well was located near the property line dividing the subject parcel from 1023 North Shoreline Blvd., approximately 30 feet into the property from Shoreline Boulevard. Sampling conducted from 1990 through 1992 revealed significant gasoline impacts in the groundwater samples from the well at the subject site. When the remediation activities began at the subject site, the concentrations decreased. Between 1992 and 1994, the

concentrations in the samples collected from the well at the site dropped significantly and stabilized at lower concentrations. From 2002 until the release investigation was closed and the well was properly abandoned, no impacts were detected in any of the groundwater samples collected from the monitoring well at the site during 30 separate groundwater monitoring events. The subject site was never named as a possible source of the impacts and the source release has been closed. This is classified as a Historical Recognized Environmental Condition (HREC) since the impacts have been mitigated, the subject site no longer appears to be impacted, and the release investigation has been closed indicating it has been resolved to the satisfaction of the overseeing regulatory agency. No additional investigation is recommended with regards to the former monitoring well or historical impacts in the groundwater samples collected from the well.

The site is near but does not appear to be impacted by several known solvent releases impacting groundwater over a large area west of Shoreline Boulevard. The sources and responsible parties for the regional plumes are known and the investigation and remediation is ongoing. The subject site was never named as a possible source of the impacts and does not appear to have been significantly impacted by the regional solvent plumes. No additional investigation is recommended with regards to the regional solvent plumes.

Based on the age of the building, there is a potential asbestos-containing materials and/or lead based paint are present in the building. Although this is not a recognized environmental condition (REC) as defined by the ASTM Standard Practice, any renovation or demolition must comply with applicable regulations regarding asbestos-containing materials and lead based paint including appropriate testing and if required, mitigation.

7.1 Data Gaps

AWR was not able to review a Chain of Title Report for the subject property. It is AWR's opinion that the lack of this information does not pose a significant data gap, as an environmental lien search was performed for the subject property and revealed no issues.

AWR was also not able to interview past occupants or past owners. Given the office use of the site, in our opinion, this is not a significant data gap.

7.2 Continuing Obligations

Continuing obligations start on the date that a landowner acquires title to a property. The landowner must: 1) comply with land use restrictions and institutional controls; 2) take "reasonable" steps with respect to hazardous substances releases; 3) provide full cooperation, assistance and access to persons that are authorized to conduct response actions or natural resource restoration; 4) comply with information requests and administrative subpoenas; and 5) provide all legally required notices. Continuing obligations must be satisfied to maintain liability protection under CERCLA for innocent landowners, bona fide prospective purchasers, and contiguous property owners.

8.0 OPINION

The presence of elevated concentrations of petroleum compounds in the monitoring well located near the northern property line is classified as a Historical Recognized Environmental Condition (HREC) since they have been resolved to the satisfaction of the overseeing agency and concentrations in the well had decreased to non-detectable concentrations during the last 10 years it was being sampled.

The regional releases do not appear to have significantly impacted the site.

The potential for asbestos and/or lead based paint in the building materials at the site is not a REC but must be managed appropriately.

No other potential RECs were identified in conjunction with the site. No additional environmental assessment is recommended at this time.

9.0 CONCLUSIONS

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-05 of 1023 Shoreline Blvd., Mountain View, Santa Clara County, California, the subject property. Any exceptions to, or deletions from, this practice are described in Section 5.1 of this Report.

This assessment has revealed no evidence of Recognized Environmental Conditions in connection with the subject property, except the following:

A monitoring well was installed near the northern edge of the property in 1990 for the investigation associated with a release of gasoline from former underground storage tanks at the former Texaco Station at 975 Shoreline Blvd (at the southwest corner of the intersection of North Shoreline Boulevard and Terra Bella Avenue). The monitoring well was located near the property line dividing the subject parcel from 1023 North Shoreline Blvd., approximately 30 feet into the property from Shoreline Boulevard. Sampling conducted from 1990 through 1992 revealed significant gasoline impacts in the groundwater samples from the well at the subject site. When the remediation activities began at the subject site, the concentrations decreased. Between 1992 and 1994, the concentrations in the samples collected from the well at the site dropped significantly and stabilized at lower concentrations. From 2002 until the release investigation was closed and the well was properly abandoned, no impacts were detected in any of the groundwater samples collected from the monitoring well at the site during 30 separate groundwater monitoring events. The subject site was never named as a possible source of the impacts and the source release has been closed. This is classified as a Historical Recognized Environmental Condition (HREC) since the impacts have been mitigated, the subject site no longer appears to be impacted, and the release investigation has been closed indicating it has been resolved to the satisfaction of the overseeing regulatory agency. No additional investigation is recommended with regards to the former monitoring well or historical impacts in the groundwater samples collected from the well.

Based on the age of the building, there is a potential asbestos-containing materials and/or lead based paint are present in the building. Although this is not a recognized environmental condition (REC) as defined by the ASTM Standard Practice, any renovation or demolition must comply with applicable regulations regarding asbestos-containing materials and lead based paint including appropriate testing and if required, mitigation.

10.0 DEVIATIONS

AWR did not evaluate the purchase price versus property value as AWR is not qualified to evaluate this issue.

11.0 ADDITIONAL SERVICES

No additional services were performed in conjunction with this Phase I ESA.

12.0 REFERENCES

EDR City Abstract:– 1957-2012.

Historic Sanborn® Fire Insurance Maps: No coverage.

Aerial Photographs: 1939, 1948 1956, 1968, 1974, 1982, 1991, 1999, 2005, 2006, 2009, 2010, and 2012.

The following governmental agencies were contacted to obtain the information in this report:

Jurisdiction	Agency
Federal	U.S. Environmental Protection Agency, Region IX, San Francisco
State and Regional	State of California Environmental Protection Agency, Department of Toxic Substances Control, Berkeley San Francisco Bay Regional Water Quality Control Board
County and Local	Santa Clara County Environmental Health Dept. Mountain View Building Department

Websites:
http://www.envirostor.dtsc.ca.gov/public/
http://www.geotracker.swrcb.ca.gov/
http://www.dhs.ca.gov/radon/default.htm

13.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

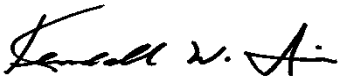
We declare that to the best of our professional knowledge and belief, we meet the definition of an Environmental Professional as defined in §312.21 of 40 CFR Part 312 and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Prepared by:



Janelle Amendola, REA
Environmental Assessor

Reviewed by:



Kendall W. Price, CEG, REA
Regional Manager/Principal Consultant

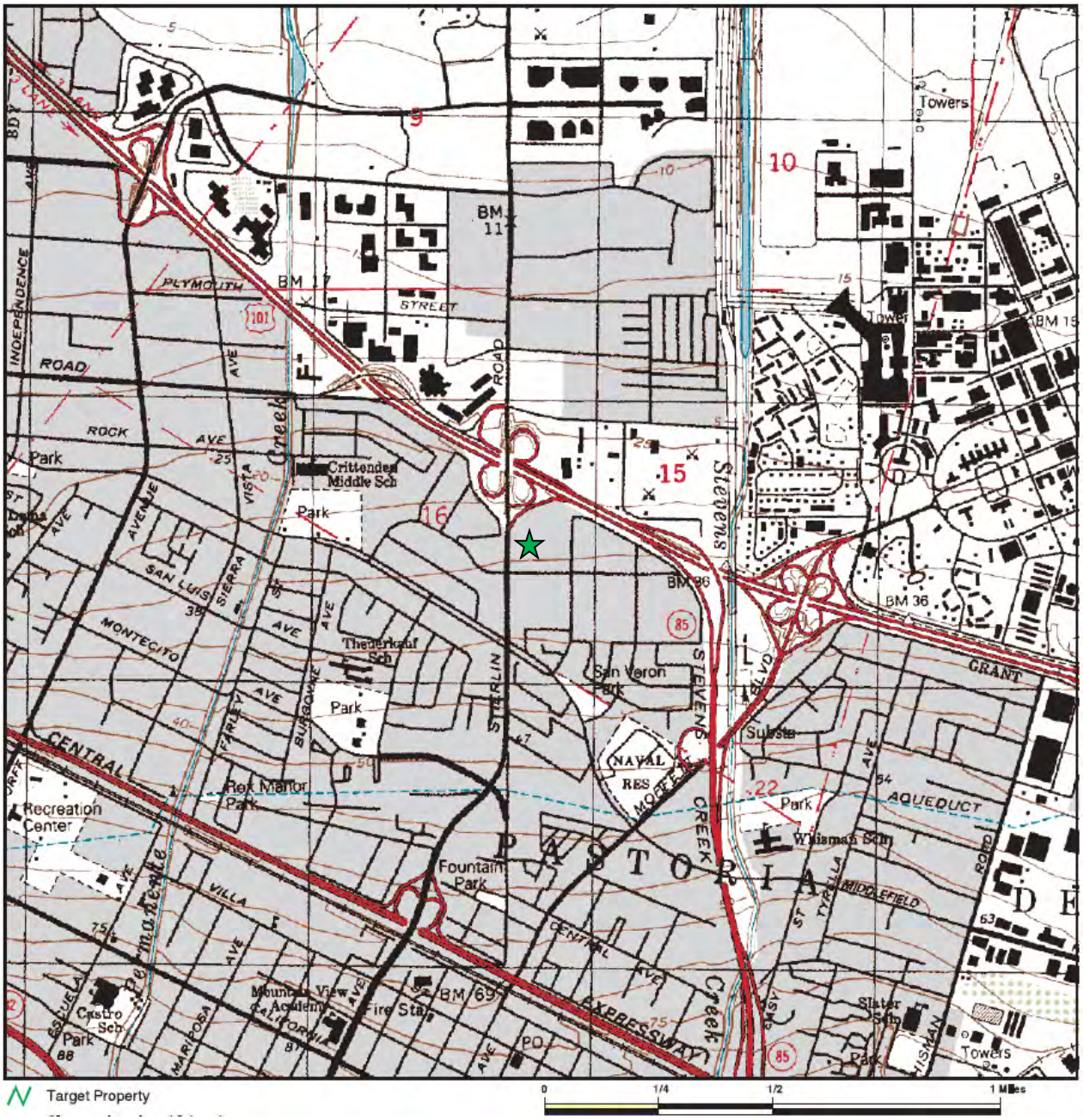
14.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Pursuant to 40 CFR 10 and according to 40 CFR Part 312, the Environmental Professionals listed in Section 13.0 possess sufficient education, training, and experience necessary to exercise the professional judgment to develop the opinions and conclusions regarding conditions indicative of releases or threatened releases on, at, in or to a property, sufficient to meet the objectives and performance factors in §312.20(e) and (f). See Appendix D for resumes on the following individuals:

Ms. Janelle Amendola

Mr. Kendall Price

APPENDIX A
Site Location Map



NOTE: Base map prepared by USGS and provided to ERS by EDR

N

FIGURE 1 – Site Location

1023 Shoreline Blvd.
Mountain View, California

APPLIED WATER RESOURCES

APPENDIX B
Site Photographs



Photo 1: View of north and west side of building and parking at the site.



Photo 2: View of west side of building and parking at the site

APPLIED WATER RESOURCES



Photo 3: View of the front of the site



Photo 4: View of site from Shoreline Blvd.

APPLIED WATER RESOURCES

October 11, 2013

Calvano Development
900 Bush Street, Penthouse 1
San Francisco, CA 94109

Attn: Mark Calvano

Re: Phase I Environmental Site Assessment Conclusion Letter
1043 Shoreline Blvd.
Mountain View, CA

Dear Mr. Calvano:

Thank you for providing Applied Water Resources Corporation (AWR) the opportunity to assist you in identifying the environmental issues at 1043 Shoreline Blvd., in Mountain View, California.

The site is a two-story office building on an approximately ¾-acre rectangular parcel. The building was constructed in approximately 1970. Prior to this, the site appears to have been used as orchards and residences since at least 1939.

The building appears to have been used as offices since their initial construction. A space formerly used as a small research lab within a currently unoccupied tenant space was observed in the site building. No other indication of non-office use of the building was observed during the site reconnaissance or discovered during our historical research for this Phase I ESA.

The only hazardous materials observed at the site were routine janitorial and maintenance materials. No evidence of significant former hazardous material use or storage tanks were observed at the site.

A monitoring well was installed near the southern edge of the property in 1990 for the investigation associated with a release of gasoline from former underground storage tanks at the former Texaco Station at 975 Shoreline Blvd (at the southwest corner of the intersection of North Shoreline Boulevard and Terra Bella Avenue). The monitoring well was located near the property line dividing the subject parcel from 1023 North Shoreline Blvd., approximately 30 feet into the

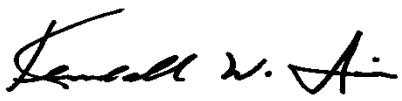
property from Shoreline Boulevard. Sampling conducted from 1990 through 1992 revealed significant gasoline impacts in the groundwater samples from the well at the subject site. When the remediation activities began at the subject site, the concentrations decreased. Between 1992 and 1994, the concentrations in the samples collected from the well at the site dropped significantly and stabilized at lower concentrations. From 2002 until the release investigation was closed and the well was properly abandoned, no impacts were detected in any of the groundwater samples collected from the monitoring well at the site during 30 separate groundwater monitoring events. The subject site was never named as a possible source of the impacts and the source release has been closed. This is classified as a Historical Recognized Environmental Condition (HREC) since the impacts have been mitigated, the subject site no longer appears to be impacted, and the release investigation has been closed indicating it has been resolved to the satisfaction of the overseeing regulatory agency. No additional investigation is recommended with regards to the former monitoring well or historical impacts in the groundwater samples collected from the well.

The site is near but does not appear to be impacted by several known solvent releases impacting groundwater over a large area west of Shoreline Boulevard. The sources and responsible parties for the regional plumes are known and the investigation and remediation is ongoing. The subject site was never named as a possible source of the impacts and does not appear to have been significantly impacted by the regional solvent plumes. No additional investigation is recommended with regards to the regional solvent plumes.

Based on the age of the building, there is a potential asbestos-containing materials and/or lead based paint are present in the building. Although this is not a recognized environmental condition (REC) as defined by the ASTM Standard Practice, any renovation or demolition must comply with applicable regulations regarding asbestos-containing materials and lead based paint including appropriate testing and if required, mitigation.

AWR looks forward to working with you on this project. Please contact me at 408.496.0801 or at kprice@erscorp.us if you have any questions or comments.

Best Regards
APPLIED WATER RESOURCES CORPORATION



Kendall W. Price CEG, REA
Principal Consultant/Regional Manager

PHASE I ENVIRONMENTAL SITE ASSESSMENT

1043 Shoreline Blvd.
Mountain View, California

October 10, 2013

Prepared For:

Calvano Development
900 Bush Street, Penthouse 1
San Francisco, CA 94109

APPLIED WATER RESOURCES

EXECUTIVE SUMMARY

Consultant:	Applied Water Resources Corporation (AWR)
Subject Property:	1043 Shoreline Blvd., Mountain View, California
Client:	Calvano Development
Location:	The site address is 1043 Shoreline Blvd., Mountain View, Santa Clara County, California. The site consists of one approximately 0.75 acre parcel. The site is located on the eastern side of Shoreline Blvd on the block south of Interstate 101. The site is referenced as Santa Clara County Assessor's Parcel Number 153-15-018.
Current Use:	The site is improved with a two-story office building totaling approximately 13,000 square feet. The property is occupied by several different office tenants.
Current Owner:	The property is currently owned by RS Company ABFI Assoc, who has owned the property since 1986.
Site Characteristics:	The property is approximately ¾-acre and is improved with a two story, approximately 13,000 square foot office building. There is no elevator in the building. The remainder of the site is paved parking areas with landscaping near the building and around the property perimeter.
Vicinity Characteristics:	The property is in a mixed commercial and light industrial within the City of Mountain View, California.
Purpose:	This Phase I Environmental Site Assessment (ESA) was performed to (1) identify any recognized environmental conditions (RECs), and (2) permit a user to satisfy one of the requirements to qualify for the innocent landowner defense under the Comprehensive

Environmental Response, Compensation and Liability Act (CERCLA) liability protection (42 U.S.C. §9601). All components of this ESA were performed or overseen by Environmental Professionals as defined in the All Appropriate Inquiries (AAI) Standard and the American Society for Testing and Materials (ASTM) E 1527-05.

Conclusions:

A monitoring well was installed near the southern edge of the property in 1990 for the investigation associated with a release of gasoline from former underground storage tanks at the former Texaco Station at 975 Shoreline Blvd (at the southwest corner of the intersection of North Shoreline Boulevard and Terra Bella Avenue). The monitoring well was located near the property line dividing the subject parcel from 1023 North Shoreline Blvd., approximately 30 feet into the property from Shoreline Boulevard. Sampling conducted from 1990 through 1992 revealed significant gasoline impacts in the groundwater samples from the well at the subject site. When the remediation activities began at the subject site, the concentrations decreased. Between 1992 and 1994, the concentrations in the samples collected from the well at the site dropped significantly and stabilized at lower concentrations. From 2002 until the release investigation was closed and the well was properly abandoned, no impacts were detected in any of the groundwater samples collected from the monitoring well at the site during 30 separate groundwater monitoring events. The subject site was never named as a possible source of the impacts and the source release has been closed. This is classified as a Historical Recognized Environmental Condition (HREC) since the impacts have been mitigated, the subject site no longer appears to be impacted, and the release investigation has been closed indicating it has been resolved to the satisfaction of the overseeing regulatory agency. No additional investigation is recommended with regards to the former monitoring well or historical impacts in the groundwater samples collected from the well.

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1.0 INTRODUCTION

On behalf of Calvano Development (hereinafter referred to as the "Client"), Applied Water Resources Corporation (AWR), performed a Phase I Environmental Site Assessment (ESA) of the property located at 1043 Shoreline Blvd., Mountain View, Santa Clara County, California (hereinafter referred to as the "subject property").

1.1 Purpose

This ESA was performed to provide a record of the site conditions at the subject property and to evaluate what, if any, recognized environmental conditions exist at this site. Additional goals of this ESA are to identify recognized environmental conditions (RECs) from current and historical practices on the subject property and surrounding area and to assist the Client to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations from Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) liability.

1.2 Detailed Scope of Services

The following tasks were performed in accordance with the Scope of Services.

- Visual site inspection of the subject property to investigate for recognized environmental conditions. AWR is not responsible for inspecting areas covered by parked vehicles, overgrown vegetation, and other obstacles preventing access.

- A historical review of the use and improvements of the subject property through a review of aerial photographs, historical topographic maps, city directories, fire insurance maps, title reports, and/or building department records.

- A review of available geologic and hydrogeologic literature concerning the property and surrounding area.

- Interviews of persons familiar with the history of the subject property, including key site managers, owners, tenants, past tenants, and/or previous owners.

- Review of appropriate federal, state, and local regulatory agencies to reveal known hazardous wastes sites or significant leaks or spills of hazardous materials that may have occurred at the subject property and immediate vicinity.

- Interviews with applicable local agencies familiar with the areas in the vicinity of the subject property such as local fire departments, health departments, Regional Water Quality Control Board, and/or other local government agencies.

1.3 Significant Assumptions

No significant assumptions were made during this Phase I ESA.

1.4 Limitations and Exceptions of Agreement

AWR has performed the services for this project in accordance with our proposal, and within the current standards of the American Society for Testing and Materials (ASTM 1527-05) for Phase I Environmental Site Assessments and the standards for All Appropriate Inquiries (AAI) approved by the Federal Environmental Protection Agency. Except for the representations set forth in this Phase I ESA, no other representations, guarantees, or warrantees are either expressed or implied. A record search was limited to reasonably ascertainable information that could be obtained within 20 calendar days.

The review was limited to a search for RECs at the subject property. The term REC means the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimus* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

There is no investigation that is thorough enough to preclude the presence of hazardous materials that presently, or in the future, may be considered hazardous at the site. Because regulatory evaluation criteria are constantly changing, concentrations of contaminants presently considered low may, in the future, fall under more stringent regulatory standards that require remediation.

The Site Reconnaissance was limited to visual observation of surface conditions at the subject property. Interviews with public agency personnel were conducted. Reasonably ascertainable information was reviewed. This approach reflects current ASTM standards and AAI regulations.

Where there is a conflict between the environmental database and AWR's actual knowledge with regard to the distance and direction from the subject property of sites listed on the database, information obtained by AWR from the site reconnaissance was used. Whenever feasible, AWR notes such conflict within the text of the report.

This ESA addresses recognized environmental conditions at the subject property. However, certain conditions, such as those listed below may not be revealed:

1) naturally occurring toxic materials in subsurface soils, rocks, or water, or toxicity of onsite flora;
2) toxicity of substances common in current habitable environments, such as stored household products, building materials, and consumables;
3) biological pathogens;
4) contaminant plume below the depths sampled or from remote source;
5) contaminants or contaminant concentrations that do not violate present regulatory standards, but may violate future standards; and
6) unknown site contamination, such as illegal dumping and/or accidental spillage which may occur following the site visit by AWR.

Opinions and judgments expressed herein, which are based on our understanding and interpretation of current regulatory standards, should not be construed as legal opinions. This document and the information contained herein have been prepared solely for the Client and any reliance on this report by third parties not authorized by the Client shall be at such party's sole risk.

Conducting an AAI Phase I ESA alone does not provide a landowner with protection against CERCLA liability. Landowners who want to qualify as bona fide prospective purchasers or contiguous property owner must comply with all of the statutory requirements identified in CERCLA Section 107(r) and 107(q).

1.5 Special Terms and Conditions

No special terms or conditions were agreed upon for conducting this Phase I ESA.

1.6 User Reliance

As specified in ASTM E 1527-05, Sections 7.5.2 and 7.5.2.1, AWR is not required to independently verify the information provided by the User (Client), obtained from interviews, previous environmental reports, and/or reviewed documents during records review.

2.0 SITE DESCRIPTION

2.1 Site Location

The site address is 1043 Shoreline Blvd., Mountain View, Santa Clara County, California. The site consists of one approximately ¾ acre parcel. The site is located on the eastern side of Shoreline Blvd, on the block south of Interstate 101. The site is referenced as Santa Clara County Assessor's Parcel Number 153-15-018.

2.2 Site and Vicinity General Characteristics

The property is in a mixed commercial and light industrial area within the City of Mountain View, California.

2.3 Current and Proposed Use of the Property

The property is improved with a two story approximately 13,000 square foot office building divided into multiple tenant spaces. .

It is our understanding Calvano Development is proposing to purchase the site. No information on proposed use of the property was provided to AWR.

2.4 Description of Structures, Road, and Other Improvements

The site is a two-story office building on an approximately ¾-acre rectangular parcel. The building was constructed in approximately 1970.

The remainder of the site is occupied by asphalt parking and driving areas, sidewalks to and around the building, and landscaping near the building and around the property perimeter.

The site is a rectangular shaped parcel located on the eastern side of Shoreline Blvd and is accessed from Shoreline Boulevard with connected parking lots to 1023 Shoreline Blvd south of the site and properties on Linda Vista east of the site.

The subject property is connected to the municipal water and sanitary and storm sewer systems.

2.5 Current Uses of the Adjoining Properties

The property is in a mixed use area. South of the site is an office building. The remaining adjacent properties appear to be light industrial.

3.0 USER PROVIDED INFORMATION

3.1 Title Records

An Environmental Liens Search was performed by EDR as a part of this Phase I ESA. The lien search, including the most recent grant deed, is included in Appendix J. No additional title information was provided by the user.

3.2 Environmental Liens or Activity and Use Limitations

The Environmental Professional is required to search for Activity and Use Limitations (AULs) if such records are available in *"publicly available lists or registries."* Typical AULs include land use restrictions (LURs), institutional controls (ICs), and Engineering Controls (ECs). Typical ICs include: 1) governmental controls such as zoning; 2) proprietary controls such as covenants or easements; 3) enforcement documents such as orders or

consent decrees; and 4) information devices such as land record or deed notices. Typical ECs include: 1) passive measures such as vapor barriers and setbacks; 2) active measures such as remediation systems; and 3) monitoring of passive and/or active measures. According to 40 CFR Part 312.26 (b)(7), ICs are to be investigated on the subject property and according to 40 CFR Part 312.26 (b)(6) and (c)(2)(ii), ECs are to be reviewed to a 0.5 mile radius of the subject property. ASTM 1527-05 recommends that ECs be reviewed only for the subject property.

An Environmental Liens Search was performed for the subject property. The Environmental Liens Search did not report any environmental liens associated with the subject property.

3.3 Specialized Knowledge

AWR was not informed of any specialized knowledge associated with the subject property or the area in the vicinity of the subject property.

3.4 Commonly Known or Reasonably Ascertainable Information

AWR was did not discover any commonly known or reasonable ascertainable information associated with the subject property or the area in the vicinity of the subject property.

3.5 Valuation Reduction for Environmental Issues

AWR was not provided with purchase price information.

3.6 Owner, Property Manager, and Occupant Information

The property is currently owned by RS Company ABFI Assoc, who has owned the property since 1986.

The property is occupied by several different office tenants.

No property manager was identified to AWR.

3.7 Reason for Performing the Phase I ESA

AWR has performed this Phase I ESA in preparation of a proposed property transfer.

3.8 Previous Reports

AWR was not provided with any previous reports for the subject site.

4.0 RECORDS REVIEW

The government environmental agency databases AWR reviewed are listed on pages 4 through 7 of the Map Findings Summary of the database obtained from Environmental Data Resources, Inc. (EDR), included as Appendix C. Please refer to the EDR report in Appendix C for additional information on the searched databases including the full names of the databases, the regulatory agency overseeing the databases, a summary of the types of facilities listed on each database, and the dates the information was obtained from the regulatory agencies. Where locations and distances reported by EDR were observed to be incorrect, AWR amended the information to provide a more accurate assessment.

AWR also requested information from the San Francisco Bay Regional Water Quality Control Board, the Santa Clara County Environmental Health Department, the Santa Clara Valley Water District, the Mountain View Fire Department, and the California Department of Toxic Substance Control Envirostor database. Information from these sources for the subject site is included in Section 4.1.1. Information on nearby releases is included in Section 4.1.2.

4.1 Standard Environmental Record Sources

4.1.1 Subject Property

The site address was not listed on any of the searched databases.

AWR also requested information from the San Francisco Bay Regional Water Quality Control Board, the Santa Clara County Environmental Health Department, the Santa Clara Valley Water District, the Mountain View Fire Department, and the California Department of Toxic Substance Control Envirostor database.

<u>Mountain View Fire Department</u>
AWR reviewed files for the site at the Mountain View Fire Department. The Mountain View Fire Department is the Certified Unified Program Agency (CUPA) for properties in

Mountain View. As a CUPA, the Mountain View Fire Department is responsible for implementing the following programs: Above Ground Storage Tanks, California Accidental Release Prevention Program (CalARP), Hazardous Materials Management Plans/Business Plans, Hazardous Waste Generator, On Site Treatment of Hazardous Wastes, and Underground Storage Tanks. The Mountain View Fire Department had no record of hazardous materials or underground storage tanks at the site. The only information available from the Mountain View Fire Department was life safety records such as sprinklers and fire extinguishers.

Santa Clara County Environmental Health Department

AWR reviewed files at the Santa Clara County Environmental Health Department Leaking Underground Storage Tank Oversight Program (LUSTOP). There were no release files for the subject site address. Files reviewed for nearby releases potentially impacting the site are discussed in Section 4.1.2.

California Department of Toxic Substance Control

AWR reviewed files at the California Department of Toxic Substance Control Envirostor database. There were no release files for the subject site address. Files reviewed for nearby releases potentially impacting the site are discussed in Section 4.1.2.

Regional Water Quality Control Board

AWR reviewed files at the Regional Water Quality Control Board Geotracker database. There were no release files for the subject site address. Files reviewed for nearby releases potentially impacting the site are discussed in Section 4.1.2.

US EPA Region 9

AWR reviewed files available online for the US Environmental Protection Agency (EPA) Region 9 Superfund sites. There were no release files for the subject site address. Files reviewed for nearby releases potentially impacting the site are discussed in Section 4.1.2.

4.1.2 Offsite Listings

Based upon a review of groundwater monitoring data collected at nearby release investigations, groundwater beneath the subject property was calculated to flow toward the north and was encountered at depths ranging from 4 to 16 feet below ground surface (bgs). Based on this inferred groundwater flow direction, offsite listings that are adjacent to or south of the subject site have the greatest potential to impact the subject site. The sites of note are discussed below:

- There are six federal national priority list (NPL) sites, also known as Superfund sites, within one mile of the site including two which are within ¼-mile of the site. The NPL listings are Moffett Naval Air Station, Intel Corp (Mountain View Plant) Teledyne Semiconductor, Spectra-Physics, Inc., Jasco Chemical Corp., and CTS Printex, Inc. The NPL listings are primarily for releases of solvents and several of the plumes are mingled. In addition, there are several state-overseen releases that have contributed to the regional impacts. AWR reviewed information in the EDR report as well as additional information obtained from EPA Region 9, California DTSC, and the RWQCB. Based on our review of the information, the site is near but does not appear to be impacted by several known solvent releases impacting groundwater over a large area. It appears that the intermingled plumes are primarily west of Shoreline Boulevard. The sources and responsible parties for the regional plumes are known and the investigation and remediation is ongoing. The subject site was never named as a possible source of the impacts and does not appear to have been significantly impacted by the regional solvent plumes.

- Texaco (CVX #21-1179) at 975 Shoreline Blvd (formerly known as Sterlin Road) was identified on the CA LUST and CA HIST LUST databases. These are databases that list facilities that have had releases from underground storage tanks. AWR obtained additional information on this release from the Santa Clara County Environmental Health Department LUSTOP program. A monitoring well was installed near the southern edge of the subject site in 1990 for the investigation associated with a release of gasoline from former underground storage tanks at the former Texaco Station at 975 Shoreline Blvd (at the southwest corner of the intersection of North Shoreline Boulevard and Terra Bella Avenue). The monitoring well was located near the property line dividing the subject parcel from 1023 North Shoreline Blvd., approximately 30 feet into the property from Shoreline Boulevard. Sampling conducted from 1990 through 1992 revealed significant gasoline impacts in the groundwater samples from the well at the subject site. When the remediation activities began at the subject site, the concentrations decreased. Between 1992 and 1994, the concentrations in the samples collected from the well at the site dropped significantly and stabilized at lower concentrations. From 2002 until the release investigation was closed and the well was properly abandoned, no impacts were detected in any of the groundwater samples collected from the monitoring well at the site during 30 separate groundwater monitoring events. The subject site was never named as a possible source of the impacts and the source release has been closed. This is classified as a

Historical Recognized Environmental Condition (HREC) since the impacts have been mitigated, the subject site no longer appears to be impacted, and the release investigation has been closed indicating it has been resolved to the satisfaction of the overseeing regulatory agency. No additional investigation is recommended with regards to the former monitoring well or historical impacts in the groundwater samples collected from the well.

- Robb-Jack Corp. at 1080 Linda Vista was identified on the CA LUST and CORTESE databases. These are databases that list facilities that have had releases from underground storage tanks. AWR obtained additional information on this release from the Santa Clara County Environmental Health Department LUSTOP program. Based on our review of the information, groundwater impacts appear to have been minimal and it does not appear that this release impacted the subject site. The release was closed in 1996 indicating no additional investigation or remediation is required.

Based on the distance, direction, and/or nature of the remaining listings, in our opinion, none of the other listings are likely to impact the subject site.

4.1.3 Other Sites of Potential Environmental Concern

AWR did not identify any other sites of environmental concern. AWR reviewed the sites in the EDR Database that were unable to be mapped. None of the listings appeared to correspond to the site or adjacent properties. None of the listings appear likely to have the potential to impact the site.

4.2 Additional Environmental Record Sources

AWR reviewed information on this site from the Mountain View Fire Department, the California Department of Toxic Substance Control (DTSC) Envirostor database, the Santa Clara County Environmental Health Department LUSTOP program, the California Geotracker Database, and US EPA. Information from these sources for the subject site was discussed in Section 4.1.1. Information from these sources on the nearby properties was included in Section 4.1.2.

4.3 Physical Setting Sources(s)

The EDR Report in Appendix C indicates that the underlying hard rock geology consists of Cenozoic Quaternary stratified sequence. Surface soils in the vicinity of the site are classified by the United States Department of Agriculture (USDA) Soil Conservation Service (SCS) as Botella clay loam.

Based upon a review of groundwater monitoring data collected at nearby release investigations, groundwater beneath the subject property was calculated to flow toward the north and was encountered at depths ranging from 4 to 16 feet below ground surface (bgs).

Current site-specific information on groundwater flow direction, depth, and quality can only be confirmed through the installation and survey of a minimum of three on-site groundwater-monitoring wells, which was beyond the scope of this assessment.

According to the 1999 USGS Mountain View, California Quadrangle Map, the site elevation is approximately 36 feet above mean sea level with a slight regional topographic slope downward to the north.

4.4 Historical Use Information on the Property

AWR reconstructed a brief history of the subject property through a review of historical Topographic Maps; the EDR City Abstract; available records, permits and other documents available at Santa Clara County; and historical aerial photographs provided by EDR. A summary of historical sources can be found in Section 12.0 of this Report with pertinent documents available in Appendices.

According to historical sources, the subject property appears to have been used as orchards and residences since at least 1939 through approximately 1970 when the existing building was constructed at the site and the remainder of the property was improved similar to its current configuration. The building appears to have been used as offices since its initial construction.

4.5 Historical Use Information on Adjoining Properties

The surrounding properties were primarily agricultural fields until being developed with light industrial development in the late 1960s and early 1970s.

5.0 SITE RECONNAISSANCE

The goal of the site reconnaissance is to obtain information indicating the likelihood of identifying RECs in connection with the subject property. The subject property is visually observed and any structures located on the property are observed to the extent not obstructed by bodies of water, adjacent buildings, and/or other obstructions.

5.1 Methodology and Limiting Conditions

The exterior site reconnaissance was performed by walking open areas of the property in a grid fashion. Special attention was given to observe surfaces adjacent to the structures and sidewalks, surfaces in storage areas, and potential conduits to the subsurface such as drains and sumps. The interior site reconnaissance was performed by systematically observing each room and open space of the property. Additional attention was given to doors, utility rooms, storage areas, areas where hazardous materials were used or stored, and any other accessible areas.

5.2 General Site Setting

On September 18, 2013, Ms. Janelle Amendola of AWR conducted a site reconnaissance at the subject property. Ms. Amendola was accompanied by Mr. Ted Eyre, the broker representing the current property owner during the site visit.

5.3 Exterior Observations

The majority of the site is occupied by the building and asphalt parking and drive areas with landscaping near the building and around the property perimeter. The site shares a common exterior area south of the building with the adjacent property at 1023 Shoreline.

No staining, stressed vegetation, or unusual odors were observed at the site.

5.4 Interior Observations

The building was used as offices for several tenants at the time of the site assessment. A space formerly used as a small research lab within a currently unoccupied tenant space was observed in the site building. No other indication of non-office use of the building was observed during the site reconnaissance.

The only hazardous materials observed at the site were routine janitorial and maintenance materials. No evidence of significant former hazardous material use or storage tanks were observed at the site.

There are no elevators in the site building.

No staining, stressed vegetation, or unusual odors were observed at the site.

5.4 Non-Scope Items

The following non-scope items were included as part of this Report based on readily available information that was reviewed.

5.4.1 Suspect Asbestos Containing Building Materials and Lead-Based Paint

Based on the age of the buildings, there is a potential that asbestos containing materials and/or lead based paint have been used at the site. A full survey should be completed prior to any demolition or renovation of the building at the site.

5.4.2 Radon

No radon survey was conducted. According to the EDR report, Santa Clara County is in zone 2, indicating the average indoor level is between 2 and 4 picocuries per liter (pCi/L). The US Environmental Protection Agency (USEPA) action level is 4 pCi/L.

6.0 INTERVIEWS

6.1 Interview with Owner Representative

AWR interviewed Mr. Ted Eyre, the broker representing the current property owner. Mr. Eyre has represented the property owner and this building for more than 20 years. Mr. Eyre provided information on the site development and current and former site tenants and operations.

6.2 Interview with Site Manager

No Site Manager was identified.

6.3 Interviews with Occupants

AWR conducted informal interviews with the site occupants during the site reconnaissance. Given that the current occupants only use the building for offices, formal interviews were not conducted.

6.4 Interviews with Local Government Officials

AWR reviewed information from the Mountain View Fire Department, the Santa Clara County Environmental Health Department, the San Francisco Bay Regional Quality Control Board, and the California Department of Toxic Substance Control. Information from these requests is presented elsewhere throughout this report.

6.5 Interviews with Others

AWR did not perform any interviews with others regarding the subject property.

7.0 FINDINGS

A monitoring well was installed near the southern edge of the property in 1990 for the investigation associated with a release of gasoline from former underground storage tanks at the former Texaco Station at 975 Shoreline Blvd (at the southwest corner of the intersection of North Shoreline Boulevard and Terra Bella Avenue). The monitoring well was located near the property line dividing the subject parcel from 1023 North Shoreline Blvd., approximately 30 feet into the property from Shoreline Boulevard. Sampling conducted from 1990 through 1992 revealed significant gasoline impacts in the groundwater samples from the well at the subject site. When the remediation activities began at the subject site, the concentrations decreased. Between 1992 and 1994, the

concentrations in the samples collected from the well at the site dropped significantly and stabilized at lower concentrations. From 2002 until the release investigation was closed and the well was properly abandoned, no impacts were detected in any of the groundwater samples collected from the monitoring well at the site during 30 separate groundwater monitoring events. The subject site was never named as a possible source of the impacts and the source release has been closed. This is classified as a Historical Recognized Environmental Condition (HREC) since the impacts have been mitigated, the subject site no longer appears to be impacted, and the release investigation has been closed indicating it has been resolved to the satisfaction of the overseeing regulatory agency. No additional investigation is recommended with regards to the former monitoring well or historical impacts in the groundwater samples collected from the well.

The site is near but does not appear to be impacted by several known solvent releases impacting groundwater over a large area west of Shoreline Boulevard. The sources and responsible parties for the regional plumes are known and the investigation and remediation is ongoing. The subject site was never named as a possible source of the impacts and does not appear to have been significantly impacted by the regional solvent plumes. No additional investigation is recommended with regards to the regional solvent plumes.

Based on the age of the building, there is a potential asbestos-containing materials and/or lead based paint are present in the building. Although this is not a recognized environmental condition (REC) as defined by the ASTM Standard Practice, any renovation or demolition must comply with applicable regulations regarding asbestos-containing materials and lead based paint including appropriate testing and if required, mitigation.

7.1 Data Gaps

AWR was not able to review a Chain of Title Report for the subject property. It is AWR's opinion that the lack of this information does not pose a significant data gap, as an environmental lien search was performed for the subject property and revealed no issues.

AWR was also not able to interview past occupants or past owners. Given the office use of the site, in our opinion, this is not a significant data gap.

7.2 Continuing Obligations

Continuing obligations start on the date that a landowner acquires title to a property. The landowner must: 1) comply with land use restrictions and institutional controls; 2) take "reasonable" steps with respect to hazardous substances releases; 3) provide full cooperation, assistance and access to persons that are authorized to conduct response actions or natural resource restoration; 4) comply with information requests and administrative subpoenas; and 5) provide all legally required notices. Continuing obligations must be satisfied to maintain liability protection under CERCLA for innocent landowners, bona fide prospective purchasers, and contiguous property owners.

8.0 OPINION

The presence of elevated concentrations of petroleum compounds in the monitoring well located near the southern property line is classified as a Historical Recognized Environmental Condition (HREC) since they have been resolved to the satisfaction of the overseeing agency and concentrations in the well had decreased to non-detectable concentrations during the last 10 years it was being sampled.

The regional releases do not appear to have significantly impacted the site.

The potential for asbestos and/or lead based paint in the building materials at the site is not a REC but must be managed appropriately.

No other potential RECs were identified in conjunction with the site. No additional environmental assessment is recommended at this time.

9.0 CONCLUSIONS

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-05 of 1043 Shoreline Blvd., Mountain View, Santa Clara County, California, the subject property. Any exceptions to, or deletions from, this practice are described in Section 5.1 of this Report.

This assessment has revealed no evidence of Recognized Environmental Conditions in connection with the subject property, except the following:

A monitoring well was installed near the southern edge of the property in 1990 for the investigation associated with a release of gasoline from former underground storage tanks at the former Texaco Station at 975 Shoreline Blvd (at the southwest corner of the intersection of North Shoreline Boulevard and Terra Bella Avenue). The monitoring well was located near the property line dividing the subject parcel from 1023 North Shoreline Blvd., approximately 30 feet into the property from Shoreline Boulevard. Sampling conducted from 1990 through 1992 revealed significant gasoline impacts in the groundwater samples from the well at the subject site. When the remediation activities began at the subject site, the concentrations decreased. Between 1992 and 1994, the concentrations in the samples collected from the well at the site dropped significantly and stabilized at lower concentrations. From 2002 until the release investigation was closed and the well was properly abandoned, no impacts were detected in any of the groundwater samples collected from the monitoring well at the site during 30 separate groundwater monitoring events. The subject site was never named as a possible source of the impacts and the source release has been closed. This is classified as a Historical Recognized Environmental Condition (HREC) since the impacts have been mitigated, the subject site no longer appears to be impacted, and the release investigation has been closed indicating it has been resolved to the satisfaction of the overseeing regulatory agency. No additional investigation is recommended with regards to the former monitoring well or historical impacts in the groundwater samples collected from the well.

Based on the age of the building, there is a potential asbestos-containing materials and/or lead based paint are present in the building. Although this is not a recognized environmental condition (REC) as defined by the ASTM Standard Practice, any renovation or demolition must comply with applicable regulations regarding asbestos-containing materials and lead based paint including appropriate testing and if required, mitigation.

10.0 DEVIATIONS

AWR did not evaluate the purchase price versus property value as AWR is not qualified to evaluate this issue.

11.0 ADDITIONAL SERVICES

No additional services were performed in conjunction with this Phase I ESA.

12.0 REFERENCES

EDR City Abstract:– 1957-2012.

Historic Sanborn® Fire Insurance Maps: No coverage.

Aerial Photographs: 1939, 1948 1956, 1968, 1974, 1982, 1991, 1999, 2005, 2006, 2009, 2010, and 2012.

The following governmental agencies were contacted to obtain the information in this report:

Jurisdiction	Agency
Federal	U.S. Environmental Protection Agency, Region IX, San Francisco
State and Regional	State of California Environmental Protection Agency, Department of Toxic Substances Control, Berkeley San Francisco Bay Regional Water Quality Control Board
County and Local	Santa Clara County Environmental Health Dept. Mountain View Building Department

Websites:
http://www.envirostor.dtsc.ca.gov/public/
http://www.geotracker.swrcb.ca.gov/
http://www.dhs.ca.gov/radon/default.htm

13.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

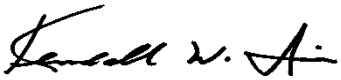
We declare that to the best of our professional knowledge and belief, we meet the definition of an Environmental Professional as defined in §312.21 of 40 CFR Part 312 and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Prepared by:



Janelle Amendola, REA
Environmental Assessor

Reviewed by:



Kendall W. Price, CEG, REA
Regional Manager/Principal Consultant

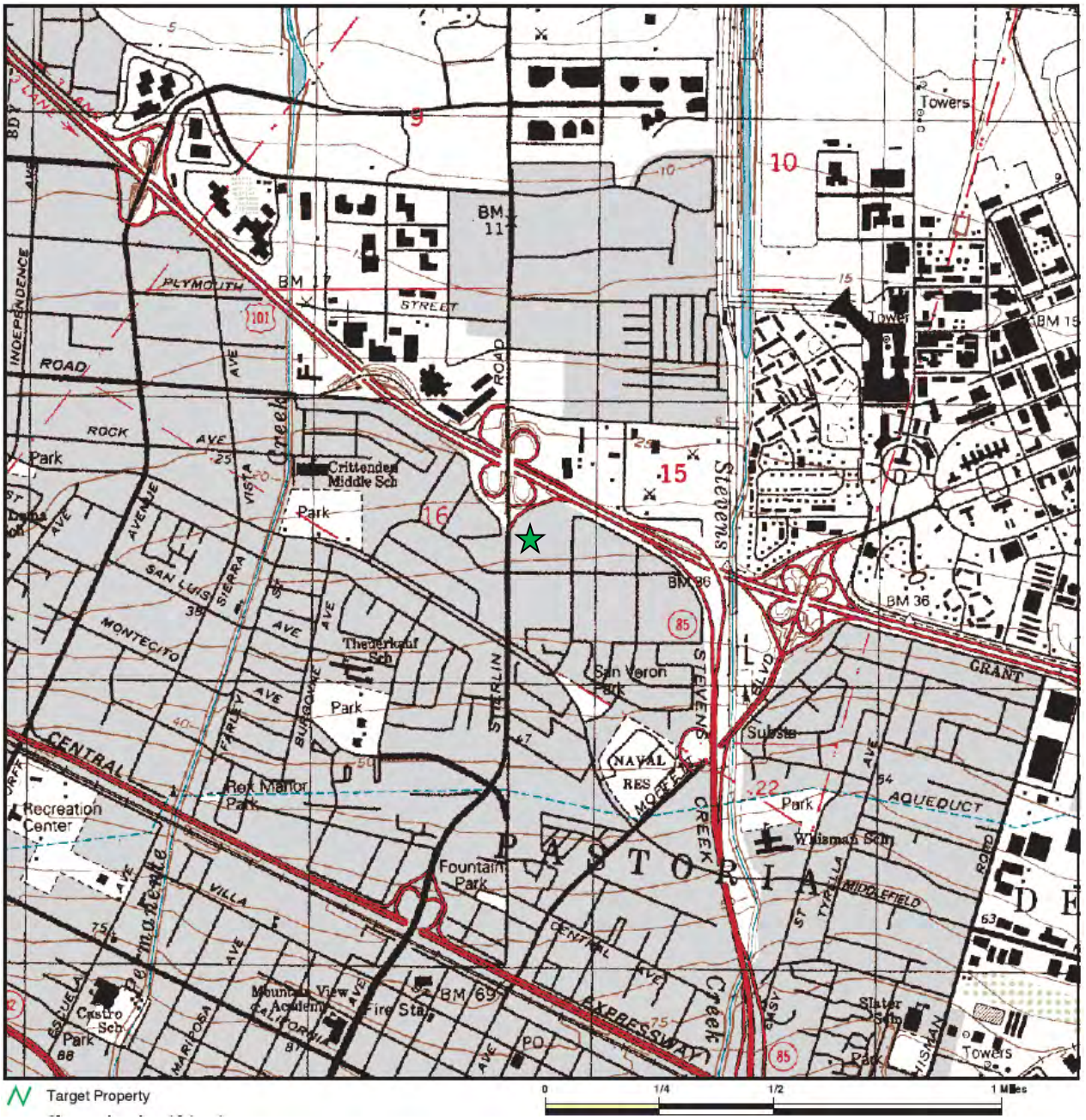
14.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Pursuant to 40 CFR 10 and according to 40 CFR Part 312, the Environmental Professionals listed in Section 13.0 possess sufficient education, training, and experience necessary to exercise the professional judgment to develop the opinions and conclusions regarding conditions indicative of releases or threatened releases on, at, in or to a property, sufficient to meet the objectives and performance factors in §312.20(e) and (f). See Appendix D for resumes on the following individuals:

Ms. Janelle Amendola

Mr. Kendall Price

APPENDIX A
Site Location Map



NOTE: Base map prepared by USGS and provided to ERS by EDR

FIGURE 1 – Site Location

1043 Shoreline Blvd.
Mountain View, California

APPLIED WATER RESOURCES

APPENDIX B
Site Photographs



Photo 1: View of south and west side of building and parking at the site.



Photo 2: View of south side of building

APPLIED WATER RESOURCES



Photo 3: Former lab area in 1043 Shoreline



Photo 4: Current tenants in 1043 Shoreline.

APPLIED WATER RESOURCES

October 11, 2013

Calvano Development
900 Bush Street, Penthouse 1
San Francisco, CA 94109

Attn: Mark Calvano

Re: Phase I Environmental Site Assessment Conclusion Letter
1062 Linda Vista
Mountain View, CA

Dear Mr. Calvano:

Thank you for providing Applied Water Resources Corporation (AWR) the opportunity to assist you in identifying the environmental issues at 1062 Linda Vista, in Mountain View, California.

The site appears to have been residential from 1939 through the early 1960s when the existing warehouse-type building constructed in the early 1960s. In the 1960s and 1970s, the site was operated as an instrument and electronics company and warehouse. During the 1980s and 1990s, the site was used as Haltek Electronics, a retail store for electrical components. Since that time, it has been used primarily for storage of a variety of clothing, artwork, supplies, and equipment purchased from storage locker auctions.

According to the property owner and occupant, the majority of the current occupants buy the contents of storage spaces that are being auctioned for delinquent rental fees and remove the items from the storage spaces to store the contents at the site until they can be resold. As a result, there is a wide variety of materials and equipment stored at the site that are not related to a particular business operation and past contents may be significantly different than the contents observed during the site reconnaissance. The property owner and occupant indicated that their procedure is any hazardous materials discovered in their purchased collections never enter the building but instead are stored outside at the rear of the facility for a short time then taken to a household hazardous waste collection. At the time of the assessment, several gallons of paint were observed at the site pending disposal. Although there is no evidence of a release from this practice, it is possible there may have been some small spills or releases from the hazardous

materials temporarily stored at the site. However, no major spills were noted during our inspection.

At the time of the site visit, storage in the site building and rear portion of the lot obscured much of the floor and ground surface limiting our ability to assess the condition of the site. No areas of significant staining or other evidence of a release was observed in the accessible and visible areas, but it is possible that there may be areas of staining on the floor or ground that were not visible during the site visit.

Hazardous materials observed in the building include various paints, lubricants, and cleaners used to clean and repair purchased items for subsequent resale. A hazardous material storage cabinet was observed in the north-central part of the building. All of the containers in the building appeared to be 1-gallon or less in retail size containers.

One of the site occupants repairs and rebuilds motorcycles as a hobby. The maintenance has been done in the rear yard of the site with some of the parts and materials stored in the building. Although there is no evidence of a release from this practice, it is possible there may have been some small spills or releases from the hazardous materials used to restore and rebuild motorcycles.

A Verizon Wireless tower was recently constructed at the site in a fenced enclosure behind the building. We were unable to enter the fenced enclosure during the site reconnaissance, but based on our observations from the perimeter, there is a generator with an attached 132 gallon diesel day tank. Based on the signage, it appears likely there are also batteries for emergency backup power. All of the equipment within the fenced enclosure was new (according to the property owner, the equipment was installed during August and September 2013) and appeared to be in very good condition. AWR observed no evidence of a spill or release associated with the wireless tower and support operations at the site.

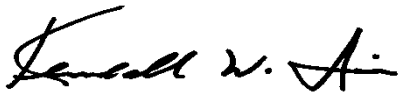
The site is near but does not appear to be impacted by several known solvent releases impacting groundwater over a large area west of Shoreline Boulevard. The sources and responsible parties for the regional plumes are known and the investigation and remediation is ongoing. The subject site was never named as a possible source of the impacts and does not appear to have been significantly impacted by the regional solvent plumes. No additional investigation is recommended with regards to the regional solvent plumes. Upon removal of the stored materials at the site, it would be prudent to inspect the property at that time.

Based on the age of the building, there is a potential asbestos-containing materials and/or lead based paint are present in the building. Although this is not a recognized environmental condition

(REC) as defined by the ASTM Standard Practice, any renovation or demolition must comply with applicable regulations regarding asbestos-containing materials and lead based paint including appropriate testing and if required, mitigation.

AWR looks forward to working with you on this project. Please contact me at 408.496.0801 or at kprice@erscorp.us if you have any questions or comments.

Best Regards
APPLIED WATER RESOURCES CORPORATION



Kendall W. Price CEG, REA
Principal Consultant/Regional Manager

PHASE I ENVIRONMENTAL SITE ASSESSMENT

1062 Linda Vista

Mountain View, California

October 10, 2013

Prepared For:

Calvano Development

900 Bush Street, Penthouse 1

San Francisco, CA 94109

APPLIED WATER RESOURCES

EXECUTIVE SUMMARY

Consultant: Applied Water Resources Corporation (AWR)

Subject Property: 1062 Linda Vista, Mountain View, California

Client: Calvano Development

Location: The site address is 1062 Linda Vista, Mountain View, Santa Clara County, California. The site consists of one approximately 0.85 acre parcel. The site is located on the western side of Linda Vista Avenue on the block south of Interstate 101. The site is referenced as Santa Clara County Assessor's Parcel Number 153-15-024.

Current Use: At the time of the assessment, the site was used primarily for storage of a variety of clothing, artwork, supplies, and equipment purchased from storage locker auctions.

According to the property owner and occupant, the majority of the current occupants buy the contents of storage spaces that are being auctioned for delinquent rental fees and remove the items from the storage spaces to store the contents at the site until they can be resold. As a result, there is a wide variety of materials and equipment stored at the site that are not related to a particular business operation and past contents may be significantly different than the contents observed during the site reconnaissance.

One of the site occupants repairs and rebuilds motorcycles as a hobby.

A Verizon Wireless tower was recently constructed at the site in a fenced enclosure behind the building.

Current Owner: The property is currently owned by Manfred J and Audrey J Trees Trustees, who have owned the proper the property since 1985.

Site Characteristics: The rectangular property is approximately 0.85-acre and is improved with a warehouse type building with a second story in the front and single story high ceiling in the remainder of the building. There is no elevator in the building. The remainder of the site is paved parking and storage areas with landscaping near the building and around the property perimeter.

Vicinity Characteristics: The property is in a mixed commercial and light industrial within the City of Mountain View, California.

Purpose: This Phase I Environmental Site Assessment (ESA) was performed to (1) identify any recognized environmental conditions (RECs), and (2) permit a user to satisfy one of the requirements to qualify for the innocent landowner defense under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) liability protection (42 U.S.C. §9601). All components of this ESA were performed or overseen by Environmental Professionals as defined in the All Appropriate Inquiries (AAI) Standard and the American Society for Testing and Materials (ASTM) E 1527-05.

Conclusions:

According to the property owner and occupant, the majority of the current occupants buy the contents of storage spaces that are being auctioned for delinquent rental fees and remove the items from the storage spaces to store the contents at the site until they can be resold. As a result, there is a wide variety of materials and equipment stored at the site that are not related to a particular business operation and past contents may be significantly different than the contents observed during the site reconnaissance. The property owner and occupant indicated that their procedure is any hazardous materials discovered in their purchased collections never enter the building but instead are stored outside at the rear of the facility for a short time then taken to a household hazardous waste collection. At the time of the assessment, several gallons of paint were observed at the site pending disposal. Although there is no evidence of a release from this practice, it

is possible there have been some small spills or releases from the hazardous materials temporarily stored at the site.

At the time of the site visit, storage in the site building and rear portion of the lot obscured much of the floor and ground surface limiting our ability to assess the condition of the site. No areas of significant staining or other evidence of a release was observed in the accessible and visible areas, but it is possible that there may be areas of staining on the floor or ground that were not visible during the site visit.

Hazardous materials observed in the building include various paints, lubricants, and cleaners used to clean and repair purchased items for subsequent resale. A hazardous material storage cabinet was observed in the north-central part of the building. All of the containers in the building appeared to be 1-gallon or less in retail size containers.

One of the site occupants repairs and rebuilds motorcycles as a hobby. The maintenance has been done in the rear yard of the site with some of the parts and materials stored in the building. Although there is no evidence of a release from this practice, it is possible there have been some small spills or releases from the hazardous materials used to restore and rebuild motorcycles.

A Verizon Wireless tower was recently constructed at the site in a fenced enclosure behind the building. We were unable to enter the fenced enclosure during the site reconnaissance, but based on our observations from the perimeter, there is a generator with an attached 132 gallon diesel day tank. Based on the signage, it appears likely there are also batteries for emergency backup power. All of the equipment within the fenced enclosure was new (according to the property owner, the equipment was installed during August and September 2013) and appeared to be in very good condition. AWR observed no evidence of a spill or release associated with the wireless tower and support operations at the site.

The site is near but does not appear to be impacted by several known solvent releases impacting groundwater over a large area west of Shoreline Boulevard. The sources and responsible parties for the regional plumes are known and the investigation and remediation is ongoing. The subject site was never named as a possible source of the impacts and does not appear to have been significantly impacted by the regional solvent plumes. No additional investigation is recommended with regards to the regional solvent

plumes. . Upon removal of the stored materials at the site, it would be prudent to inspect the property at that time.

Based on the age of the building, there is a potential asbestos-containing materials and/or lead based paint are present in the building. Although this is not a recognized environmental condition (REC) as defined by the ASTM Standard Practice, any renovation or demolition must comply with applicable regulations regarding asbestos-containing materials and lead based paint including appropriate testing and if required, mitigation.

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1.0 INTRODUCTION

On behalf of Calvano Development (hereinafter referred to as the "Client"), Applied Water Resources Corporation (AWR), performed a Phase I Environmental Site Assessment (ESA) of the property located at 1062 Linda Vista, Mountain View, Santa Clara County, California (hereinafter referred to as the "subject property").

1.1 Purpose

This ESA was performed to provide a record of the site conditions at the subject property and to evaluate what, if any, recognized environmental conditions exist at this site. Additional goals of this ESA are to identify recognized environmental conditions (RECs) from current and historical practices on the subject property and surrounding area and to assist the Client to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations from Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) liability.

1.2 Detailed Scope of Services

The following tasks were performed in accordance with the Scope of Services.

- Visual site inspection of the subject property to investigate for recognized environmental conditions. AWR is not responsible for inspecting areas covered by parked vehicles, overgrown vegetation, and other obstacles preventing access.

- A historical review of the use and improvements of the subject property through a review of aerial photographs, historical topographic maps, city directories, fire insurance maps, title reports, and/or building department records.

- A review of available geologic and hydrogeologic literature concerning the property and surrounding area.

- Interviews of persons familiar with the history of the subject property, including key site managers, owners, tenants, past tenants, and/or previous owners.

- Review of appropriate federal, state, and local regulatory agencies to reveal known hazardous wastes sites or significant leaks or spills of hazardous materials that may have occurred at the subject property and immediate vicinity.

- Interviews with applicable local agencies familiar with the areas in the vicinity of the subject property such as local fire departments, health departments, Regional Water Quality Control Board, and/or other local government agencies.

1.3 Significant Assumptions

No significant assumptions were made during this Phase I ESA.

1.4 Limitations and Exceptions of Agreement

AWR has performed the services for this project in accordance with our proposal, and within the current standards of the American Society for Testing and Materials (ASTM 1527-05) for Phase I Environmental Site Assessments and the standards for All Appropriate Inquiries (AAI) approved by the Federal Environmental Protection Agency. Except for the representations set forth in this Phase I ESA, no other representations, guarantees, or warrantees are either expressed or implied. A record search was limited to reasonably ascertainable information that could be obtained within 20 calendar days.

The review was limited to a search for RECs at the subject property. The term REC means the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimus* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

There is no investigation that is thorough enough to preclude the presence of hazardous materials that presently, or in the future, may be considered hazardous at the site. Because regulatory evaluation criteria are constantly changing, concentrations of contaminants presently considered low may, in the future, fall under more stringent regulatory standards that require remediation.

The Site Reconnaissance was limited to visual observation of surface conditions at the subject property. Interviews with public agency personnel were conducted. Reasonably ascertainable information was reviewed. This approach reflects current ASTM standards and AAI regulations.

Where there is a conflict between the environmental database and AWR's actual knowledge with regard to the distance and direction from the subject property of sites listed on the database, information obtained by AWR from the site reconnaissance was used. Whenever feasible, AWR notes such conflict within the text of the report.

This ESA addresses recognized environmental conditions at the subject property. However, certain conditions, such as those listed below may not be revealed:

1) naturally occurring toxic materials in subsurface soils, rocks, or water, or toxicity of onsite flora;
2) toxicity of substances common in current habitable environments, such as stored household products, building materials, and consumables;
3) biological pathogens;
4) contaminant plume below the depths sampled or from remote source;
5) contaminants or contaminant concentrations that do not violate present regulatory standards, but may violate future standards; and
6) unknown site contamination, such as illegal dumping and/or accidental spillage which may occur following the site visit by AWR.

Opinions and judgments expressed herein, which are based on our understanding and interpretation of current regulatory standards, should not be construed as legal opinions. This document and the information contained herein have been prepared solely for the Client and any reliance on this report by third parties not authorized by the Client shall be at such party's sole risk.

Conducting an AAI Phase I ESA alone does not provide a landowner with protection against CERCLA liability. Landowners who want to qualify as bona fide prospective purchasers or contiguous property owner must comply with all of the statutory requirements identified in CERCLA Section 107(r) and 107(q).

1.5 Special Terms and Conditions

No special terms or conditions were agreed upon for conducting this Phase I ESA.

1.6 User Reliance

As specified in ASTM E 1527-05, Sections 7.5.2 and 7.5.2.1, AWR is not required to independently verify the information provided by the User (Client), obtained from interviews, previous environmental reports, and/or reviewed documents during records review.

2.0 SITE DESCRIPTION

2.1 Site Location

The site address is 1062 Linda Vista, Mountain View, Santa Clara County, California. The site consists of one approximately ¾ acre parcel. The site is located on the western side of Linda Vista, on the block south of Interstate 101. The site is referenced as Santa Clara County Assessor's Parcel Number 153-15-024.

2.2 Site and Vicinity General Characteristics

The property is in a mixed commercial and light industrial area within the City of Mountain View, California.

2.3 Current and Proposed Use of the Property

According to the property owner and occupant, the majority of the current occupants buy the contents of storage spaces that are being auctioned for delinquent rental fees and remove the items from the storage spaces to store the contents at the site until they can be resold.

One of the site occupants repairs and rebuilds motorcycles as a hobby.

A Verizon Wireless tower was recently constructed at the site in a fenced enclosure behind the building.

It is our understanding Calvano Development is proposing to purchase the site. No information on proposed use of the property was provided to AWR.

2.4 Description of Structures, Road, and Other Improvements

The site has one building divided into several tenant spaces used primarily for storage of various materials. The building was constructed in the early 1960s and has a two story front with the majority of the building warehouse-style with high ceilings.

A wireless tower was constructed at the site earlier this year.

The remainder of the site is occupied by asphalt parking and storage areas and landscaping near the building and around the property perimeter.

The site is a rectangular shaped parcel located on the western side of Linda Vista and is accessed from Linda Vista with connected parking lots to 1080 Linda Vista north of the site.

The subject property is connected to the municipal water and sanitary and storm sewer systems.

2.5 Current Uses of the Adjoining Properties

The property is in a mixed use area. West and northwest are office buildings, south of the site is a school, east of the site, across Linda Vista, is a public storage facility. The remaining adjacent properties appear to be light industrial.

3.0 USER PROVIDED INFORMATION

3.1 Title Records

An Environmental Liens Search was performed by EDR as a part of this Phase I ESA. The lien search, including the most recent grant deed, is included in Appendix J. No additional title information was provided by the user.

3.2 Environmental Liens or Activity and Use Limitations

The Environmental Professional is required to search for Activity and Use Limitations (AULs) if such records are available in *"publicly available lists or registries."* Typical AULs include land use restrictions (LURs), institutional controls (ICs), and Engineering Controls

(ECs). Typical ICs include: 1) governmental controls such as zoning; 2) proprietary controls such as covenants or easements; 3) enforcement documents such as orders or consent decrees; and 4) information devices such as land record or deed notices. Typical ECs include: 1) passive measures such as vapor barriers and setbacks; 2) active measures such as remediation systems; and 3) monitoring of passive and/or active measures. According to 40 CFR Part 312.26 (b) (7), ICs are to be investigated on the subject property and according to 40 CFR Part 312.26 (b) (6) and (c) (2)(ii), ECs are to be reviewed to a 0.5 mile radius of the subject property. ASTM 1527-05 recommends that ECs be reviewed only for the subject property.

An Environmental Liens Search was performed for the subject property. The Environmental Liens Search did not report any environmental liens associated with the subject property.

3.3 Specialized Knowledge

AWR was not informed of any specialized knowledge associated with the subject property or the area in the vicinity of the subject property.

3.4 Commonly Known or Reasonably Ascertainable Information

AWR was did not discover any commonly known or reasonable ascertainable information associated with the subject property or the area in the vicinity of the subject property.

3.5 Valuation Reduction for Environmental Issues

AWR was not provided with purchase price information.

3.6 Owner, Property Manager, and Occupant Information

The property is currently owned by Manfred J and Audrey J Trees Trustees, who have owned the proper the property since 1985.

The property is occupied by the property owner and several different tenants.

No property manager was identified to AWR.

3.7 Reason for Performing the Phase I ESA

AWR has performed this Phase I ESA in preparation of a proposed property transfer.

3.8 Previous Reports

AWR was not provided with any previous reports for the subject site.

4.0 RECORDS REVIEW

The government environmental agency databases AWR reviewed are listed on pages 4 through 7 of the Map Findings Summary of the database obtained from Environmental Data Resources, Inc. (EDR), included as Appendix C. Please refer to the EDR report in Appendix C for additional information on the searched databases including the full names of the databases, the regulatory agency overseeing the databases, a summary of the types of facilities listed on each database, and the dates the information was obtained from the regulatory agencies. Where locations and distances reported by EDR were observed to be incorrect, AWR amended the information to provide a more accurate assessment.

AWR also requested information from the San Francisco Bay Regional Water Quality Control Board, the Santa Clara County Environmental Health Department, the Santa Clara Valley Water District, the Mountain View Fire Department, and the California Department of Toxic Substance Control Envirostor database. Information from these sources for the subject site is included in Section 4.1.1. Information on nearby releases is included in Section 4.1.2.

4.1 Standard Environmental Record Sources

4.1.1 Subject Property

The site address was not listed on any of the searched databases.

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AWR also requested information from the San Francisco Bay Regional Water Quality Control Board, the Santa Clara County Environmental Health Department, the Santa Clara Valley Water District, the Mountain View Fire Department, and the California Department of Toxic Substance Control Envirostor database.

Mountain View Fire Department

AWR reviewed files for the site at the Mountain View Fire Department. The Mountain View Fire Department is the Certified Unified Program Agency (CUPA) for properties in Mountain View. As a CUPA, the Mountain View Fire Department is responsible for implementing the following programs: Above Ground Storage Tanks, California Accidental Release Prevention Program (CalARP), Hazardous Materials Management Plans/Business Plans, Hazardous Waste Generator, On Site Treatment of Hazardous Wastes, and Underground Storage Tanks. The Mountain View Fire Department had no record of hazardous materials or underground storage tanks at the site.

The only hazardous material information records for the site at the Mountain View Fire Department were a 40 pounds of ferric chloride stored at the site when it was operated as Haltek Electronics.

Santa Clara County Environmental Health Department

AWR reviewed files at the Santa Clara County Environmental Health Department Leaking Underground Storage Tank Oversight Program (LUSTOP). There were no release files for the subject site address. Files reviewed for nearby releases potentially impacting the site are discussed in Section 4.1.2.

California Department of Toxic Substance Control

AWR reviewed files at the California Department of Toxic Substance Control Envirostor database. There were no release files for the subject site address. Files reviewed for nearby releases potentially impacting the site are discussed in Section 4.1.2.

Regional Water Quality Control Board

AWR reviewed files at the Regional Water Quality Control Board Geotracker database. There were no release files for the subject site address. Files reviewed for nearby releases potentially impacting the site are discussed in Section 4.1.2.

US EPA Region 9

AWR reviewed files available online for the US Environmental Protection Agency (EPA) Region 9 Superfund sites. There were no release files for the subject site address. Files reviewed for nearby releases potentially impacting the site are discussed in Section 4.1.2.

4.1.2 Offsite Listings

Based upon a review of groundwater monitoring data collected at nearby release investigations, groundwater beneath the subject property was calculated to flow toward the north and was encountered at depths ranging from 4 to 16 feet below ground surface (bgs). Based on this inferred groundwater flow direction, offsite listings that are adjacent to or south of the subject site have the greatest potential to impact the subject site. The sites of note are discussed below:

- There are six federal national priority list (NPL) sites, also known as Superfund sites, within one mile of the site including two which are within ¼-mile of the site. The NPL listings are Moffett Naval Air Station, Intel Corp (Mountain View Plant) Teledyne Semiconductor, Spectra-Physics, Inc., Jasco Chemical Corp., and CTS Printex, Inc. The NPL listings are primarily for releases of solvents and several of the plumes are mingled. In addition, there are several state-overseen releases that have contributed to the regional impacts. AWR reviewed information in the EDR report as well as additional information obtained from EPA Region 9, California DTSC, and the RWQCB. Based on our review of the information, the site is near but does not appear to be impacted by several known solvent releases impacting groundwater over a large area. It appears that the intermingled plumes are primarily west of Shoreline Boulevard. The sources and responsible parties for the regional plumes are known and the investigation and remediation is ongoing. The subject site was never named as a possible source of the impacts and does not appear to have been significantly impacted by the regional solvent plumes.

- Robb-Jack Corp. at 1080 Linda Vista was identified on the CA LUST and CORTESE databases. These are databases that list facilities that have had releases from underground storage tanks. AWR obtained additional information on this release from the Santa Clara County Environmental Health Department LUSTOP program. Based on our review of the information, groundwater impacts appear to have been minimal and it does not appear that this release impacted the subject site. The release was closed in 1996 indicating no additional investigation or remediation is required.

Based on the distance, direction, and/or nature of the remaining listings, in our opinion, none of the other listings are likely to impact the subject site.

4.1.3 Other Sites of Potential Environmental Concern

AWR did not identify any other sites of environmental concern. AWR reviewed the sites in the EDR Database that were unable to be mapped. None of the listings appeared to correspond to the site or adjacent properties. None of the listings appear likely to have the potential to impact the site.

4.2 Additional Environmental Record Sources

AWR reviewed information on this site from the Mountain View Fire Department, the California Department of Toxic Substance Control (DTSC) Envirostor database, the Santa Clara County Environmental Health Department LUSTOP program, the California Geotracker Database, and US EPA. Information from these sources for the subject site was discussed in Section 4.1.1. Information from these sources on the nearby properties was included in Section 4.1.2.

4.3 Physical Setting Sources(s)

The EDR Report in Appendix C indicates that the underlying hard rock geology consists of Cenozoic Quaternary stratified sequence. Surface soils in the vicinity of the site are classified by the United States Department of Agriculture (USDA) Soil Conservation Service (SCS) as Botella clay loam.

Based upon a review of groundwater monitoring data collected at nearby release investigations, groundwater beneath the subject property was calculated to flow toward the north and was encountered at depths ranging from 4 to 16 feet below ground surface (bgs).

Current site-specific information on groundwater flow direction, depth, and quality can only be confirmed through the installation and survey of a minimum of three on-site groundwater-monitoring wells, which was beyond the scope of this assessment.

According to the 1999 USGS Mountain View, California Quadrangle Map, the site elevation is approximately 36 feet above mean sea level with a slight regional topographic slope downward to the north.

4.4 Historical Use Information on the Property

AWR reconstructed a brief history of the subject property through a review of historical Topographic Maps; the EDR City Abstract; available records, permits and other documents available at Santa Clara County; and historical aerial photographs provided by EDR. A summary of historical sources can be found in Section 12.0 of this Report with pertinent documents available in Appendices.

According to historical sources, the subject property appears to have been used as residences since at least 1939 through approximately 1961 when the existing building was constructed at the site. The building was used as an electronics company and warehouse in the 1960s and 1970s. In the 1980s and 1990s, it was operated as Haltek, an electronics retail store. Since then, it has been used primarily for storage.

4.5 Historical Use Information on Adjoining Properties

The surrounding properties were primarily agricultural fields until being developed with light industrial development in the late 1960s and early 1970s.

5.0 SITE RECONNAISSANCE

The goal of the site reconnaissance is to obtain information indicating the likelihood of identifying RECs in connection with the subject property. The subject property is visually observed and any structures located on the property are observed to the extent not obstructed by bodies of water, adjacent buildings, and/or other obstructions.

5.1 Methodology and Limiting Conditions

The exterior site reconnaissance was performed by walking open areas of the property in a grid fashion. Special attention was given to observe surfaces adjacent to the structures and sidewalks, surfaces in storage areas, and potential conduits to the subsurface such as drains and sumps. The interior site reconnaissance was performed by systematically observing each room and open space of the property. Additional attention was given to doors, utility rooms, storage areas, areas where hazardous materials were used or stored, and any other accessible areas.

At the time of the site visit, storage in the site building and rear portion of the lot obscured much of the floor and ground surface limiting our ability to assess the condition of the site. No areas of significant staining or other evidence of a release was observed in the accessible and visible areas, but it is possible that there may be areas of staining on the floor or ground that were not visible during the site visit.

5.2 General Site Setting

On September 20, 2013, Ms. Janelle Amendola of AWR conducted a site reconnaissance at the subject property. Ms. Amendola was accompanied by Ms. Audrey Trees, the property owner since 1985, during the site visit.

5.3 Exterior Observations

According to the property owner and occupant, the majority of the current occupants buy the contents of storage spaces that are being auctioned for delinquent rental fees and remove the items from the storage spaces to store the contents at the site until they can be resold. As a result, there is a wide variety of materials and equipment stored at the site that are not related to a particular business operation and past contents may be significantly different than the contents observed during the site reconnaissance. The property owner and occupant indicated that their procedure is any hazardous materials discovered in their purchased collections never enter the building but instead are stored outside at the rear of the facility for a short time then taken to a household hazardous waste collection. At the time of the assessment, several gallons of paint were observed at the site pending disposal. Although there is no evidence of a release from this practice, it is possible there may have been some small spills or releases from the hazardous materials temporarily stored at the site.

One of the site occupants repairs and rebuilds motorcycles as a hobby. The maintenance has been done in the rear yard of the site with some of the parts and materials stored in the building. Although there is no evidence of a release from this practice, it is possible there have been some small spills or releases from the hazardous materials used to restore and rebuild motorcycles. It would be prudent to inspect the site after the stored materials have been removed.

A Verizon Wireless tower was recently constructed at the site in a fenced enclosure behind the building. We were unable to enter the fenced enclosure during the site reconnaissance, but based on our observations from the perimeter, there is a generator with an attached 132 gallon diesel day tank. Based on the signage, it appears likely there are also batteries for emergency backup power. All of the equipment within the fenced enclosure was new (according to the property owner, the equipment was installed during August and September 2013) and appeared to be in very good condition. AWR observed no evidence of a spill or release associated with the wireless tower and support operations at the site.

5.4 Interior Observations

At the time of the site visit, storage in the site building and rear portion of the lot obscured much of the floor and ground surface limiting our ability to assess the condition of the site. No areas of significant staining or other evidence of a release was observed in the accessible and visible areas, but it is possible that there may be areas of staining on the floor or ground that were not visible during the site visit.

Hazardous materials observed in the building include various paints, lubricants, and cleaners used to clean and repair purchased items for subsequent resale. A hazardous material storage cabinet was observed in the north-central part of the building. All of the containers in the building appeared to be 1-gallon or less in retail size containers.

There are no elevators in the site building.

No staining, stressed vegetation, or unusual odors were observed at the site.

5.4 Non-Scope Items

The following non-scope items were included as part of this Report based on readily available information that was reviewed.

5.4.1 Suspect Asbestos Containing Building Materials and Lead-Based Paint

Based on the age of the buildings, there is a potential that asbestos containing materials and/or lead based paint have been used at the site. A full survey should be completed prior to any demolition or renovation of the building at the site.

5.4.2 Radon

No radon survey was conducted. According to the EDR report, Santa Clara County is in zone 2, indicating the average indoor level is between 2 and 4 picocuries per liter (pCi/L). The US Environmental Protection Agency (USEPA) action level is 4 pCi/L.

6.0 INTERVIEWS

6.1 Interview with Owner Representative

AWR interviewed Mrs. Audrey Trees, the property owner, during the site visit. Mrs. Trees has owned the property with her husband since 1985. Mrs. Trees provided information on the current and former site tenants and operations.

6.2 Interview with Site Manager

No Site Manager was identified.

6.3 Interviews with Occupants

AWR conducted informal interviews with the site occupants during the site reconnaissance including Mrs. Audrey Trees, the property owner who also occupies the rear portion of the building. Given that the current occupant operations, formal interviews were not conducted with other site occupants.

6.4 Interviews with Local Government Officials

AWR reviewed information from the Mountain View Fire Department, the Santa Clara County Environmental Health Department, the San Francisco Bay Regional Quality Control Board, and the California Department of Toxic Substance Control. Information

from these requests is presented elsewhere throughout this report.

6.5 Interviews with Others

AWR did not perform any interviews with others regarding the subject property.

7.0 FINDINGS

According to the property owner and occupant, the majority of the current occupants buy the contents of storage spaces that are being auctioned for delinquent rental fees and remove the items from the storage spaces to store the contents at the site until they can be resold. As a result, there is a wide variety of materials and equipment stored at the site that are not related to a particular business operation and past contents may be significantly different than the contents observed during the site reconnaissance. The property owner and occupant indicated that their procedure is any hazardous materials discovered in their purchased collections never enter the building but instead are stored outside at the rear of the facility for a short time then taken to a household hazardous waste collection. At the time of the assessment, several gallons of paint were observed at the site pending disposal. Although there is no evidence of a release from this practice, it is possible there have been some small spills or releases from the hazardous materials temporarily stored at the site.

At the time of the site visit, storage in the site building and rear portion of the lot obscured much of the floor and ground surface limiting our ability to assess the condition of the site. No areas of significant staining or other evidence of a release was observed in the accessible and visible areas, but it is possible that there may be areas of staining on the floor or ground that were not visible during the site visit.

Hazardous materials observed in the building include various paints, lubricants, and cleaners used to clean and repair purchased items for subsequent resale. A hazardous material storage cabinet was observed in the north-central part of the building. All of the containers in the building appeared to be 1-gallon or less in retail size containers.

One of the site occupants repairs and rebuilds motorcycles as a hobby. The maintenance has been done in the rear yard of the site with some of the parts and materials stored in the building. Although there is no evidence of a release from this practice, it is possible there have been some small spills or releases from the hazardous materials used to restore and

rebuild motorcycles. It would be prudent to inspect the property after the stored materials have been removed.

A Verizon Wireless tower was recently constructed at the site in a fenced enclosure behind the building. We were unable to enter the fenced enclosure during the site reconnaissance, but based on our observations from the perimeter, there is a generator with an attached 132 gallon diesel day tank. Based on the signage, it appears likely there are also batteries for emergency backup power. All of the equipment within the fenced enclosure was new (according to the property owner, the equipment was installed during August and September 2013) and appeared to be in very good condition. AWR observed no evidence of a spill or release associated with the wireless tower and support operations at the site.

The site is near but does not appear to be impacted by several known solvent releases impacting groundwater over a large area west of Shoreline Boulevard. The sources and responsible parties for the regional plumes are known and the investigation and remediation is ongoing. The subject site was never named as a possible source of the impacts and does not appear to have been significantly impacted by the regional solvent plumes. No additional investigation is recommended with regards to the regional solvent plumes.

Based on the age of the building, there is a potential asbestos-containing materials and/or lead based paint are present in the building. Although this is not a recognized environmental condition (REC) as defined by the ASTM Standard Practice, any renovation or demolition must comply with applicable regulations regarding asbestos-containing materials and lead based paint including appropriate testing and if required, mitigation.

7.1 Data Gaps

AWR was not able to review a Chain of Title Report for the subject property. It is AWR's opinion that the lack of this information does not pose a significant data gap, as an environmental lien search was performed for the subject property and revealed no issues.

AWR was also not able to interview past occupants or past owners. Given the use of the site and the length of time that the current owner has been involved with the site, in our opinion, this is not a significant data gap.

7.2 Continuing Obligations

Continuing obligations start on the date that a landowner acquires title to a property. The landowner must: 1) comply with land use restrictions and institutional controls; 2) take "reasonable" steps with respect to hazardous substances releases; 3) provide full cooperation, assistance and access to persons that are authorized to conduct response actions or natural resource restoration; 4) comply with information requests and administrative subpoenas; and 5) provide all legally required notices. Continuing obligations must be satisfied to maintain liability protection under CERCLA for innocent landowners, bona fide prospective purchasers, and contiguous property owners.

8.0 OPINION

Small quantities of a variety of hazardous materials have been used and stored at the site. In addition, much of the ground and building floor was not able to be observed due to the quantity of materials being stored at the site. There is no evidence of a release, but we recommend an additional visual assessment once the materials have been removed and the site can be more thoroughly viewed.

The regional releases do not appear to have significantly impacted the site.

The potential for asbestos and/or lead based paint in the building materials at the site is not a REC but must be managed appropriately.

No other potential RECs were identified in conjunction with the site. No additional environmental assessment is recommended at this time.

9.0 CONCLUSIONS

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-05 of 1062 Linda Vista, Mountain View, Santa Clara County, California, the subject property. Any exceptions to, or deletions from, this practice are described in Section 5.1 of this Report.

This assessment has revealed no evidence of Recognized Environmental Conditions in connection with the subject property, except the following:

Small quantities of a variety of hazardous materials have been used and stored at the site. In addition, much of the ground and building floor was not able to be observed due to the quantity of materials being stored at the site. There is no evidence of a release, but we recommend an additional visual assessment once the materials have been removed and the site can be more thoroughly viewed.

Based on the age of the building, there is a potential asbestos-containing materials and/or lead based paint are present in the building. Although this is not a recognized environmental condition (REC) as defined by the ASTM Standard Practice, any renovation or demolition must comply with applicable regulations regarding asbestos-containing materials and lead based paint including appropriate testing and if required, mitigation.

10.0 DEVIATIONS

AWR did not evaluate the purchase price versus property value as AWR is not qualified to evaluate this issue.

11.0 ADDITIONAL SERVICES

No additional services were performed in conjunction with this Phase I ESA.

12.0 REFERENCES

EDR City Abstract:– 1957-2012.

Historic Sanborn® Fire Insurance Maps: No coverage.

Aerial Photographs: 1939, 1948 1956, 1968, 1974, 1982, 1991, 1999, 2005, 2006, 2009, 2010, and 2012.

The following governmental agencies were contacted to obtain the information in this report:

Jurisdiction	Agency
Federal	U.S. Environmental Protection Agency, Region IX, San Francisco
State and Regional	State of California Environmental Protection Agency, Department of Toxic Substances Control, Berkeley San Francisco Bay Regional Water Quality Control Board
County and Local	Santa Clara County Environmental Health Dept. Mountain View Building Department

Websites:
http://www.envirostor.dtsc.ca.gov/public/
http://www.geotracker.swrcb.ca.gov/
http://www.dhs.ca.gov/radon/default.htm

13.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

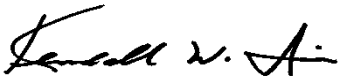
We declare that to the best of our professional knowledge and belief, we meet the definition of an Environmental Professional as defined in §312.21 of 40 CFR Part 312 and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Prepared by:



Janelle Amendola, REA
Environmental Assessor

Reviewed by:



Kendall W. Price, CEG, REA
Regional Manager/Principal Consultant

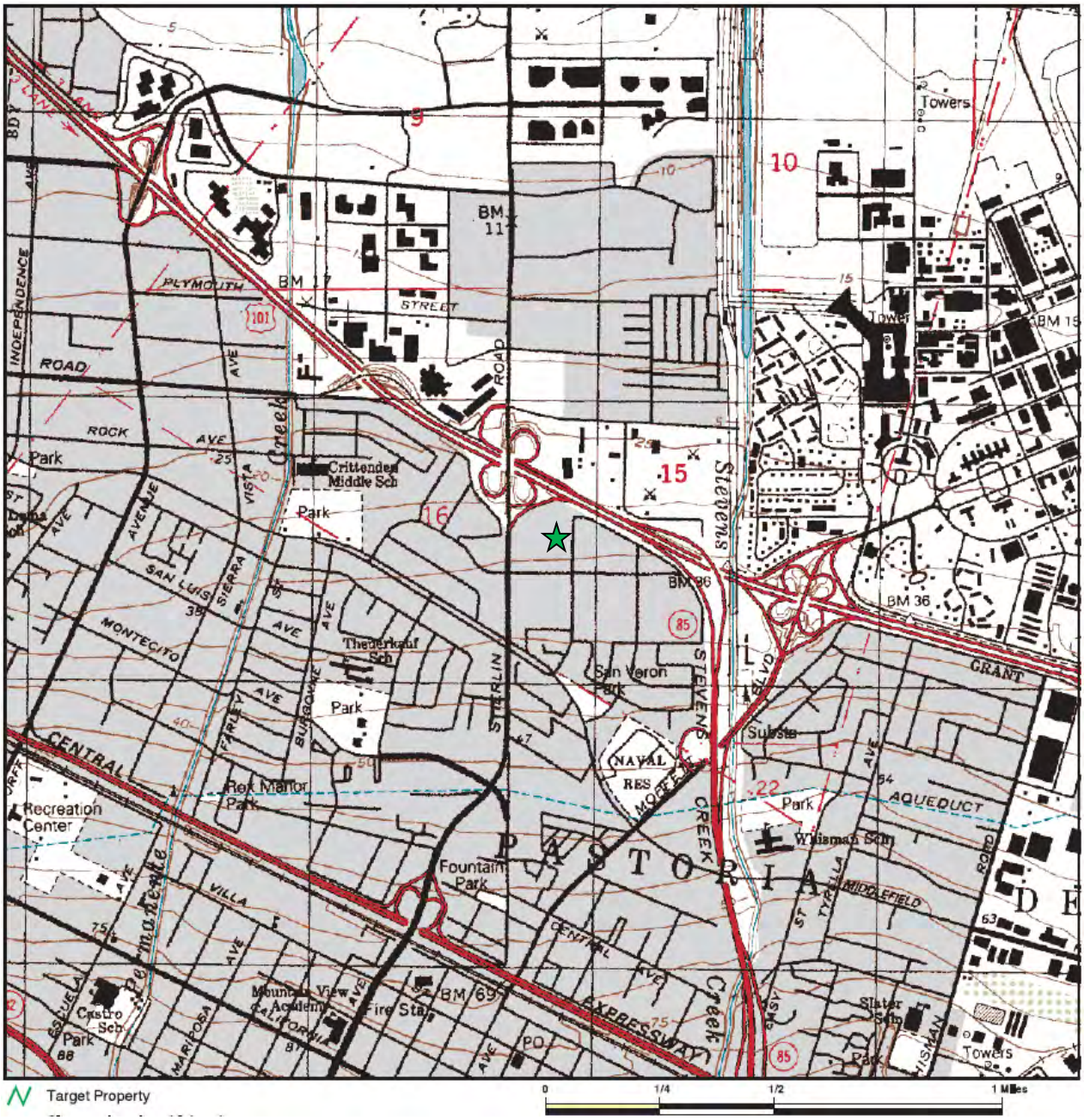
14.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Pursuant to 40 CFR 10 and according to 40 CFR Part 312, the Environmental Professionals listed in Section 13.0 possess sufficient education, training, and experience necessary to exercise the professional judgment to develop the opinions and conclusions regarding conditions indicative of releases or threatened releases on, at, in or to a property, sufficient to meet the objectives and performance factors in §312.20(e) and (f). See Appendix D for resumes on the following individuals:

Ms. Janelle Amendola

Mr. Kendall Price

APPENDIX A
Site Location Map



NOTE: Base map prepared by USGS and provided to ERS by EDR

FIGURE 1 – Site Location

1062 Linda Vista
Mountain View, California

APPLIED WATER RESOURCES

APPENDIX B
Site Photographs



Photo 1: View of site from Linda Vista.



Photo 2: View of storage in building interior

APPLIED
WATER
RESOURCES



Photo 3: View of paint and welding supplies stored in building.



Photo 4: View of flammable storage cabinet in buidling

APPLIED WATER RESOURCES



Photo 5: View of storage in building interior.



Photo 6: View of storage in building interior



Photo 7: View of drums used for storage of bee-keeping equipment at the site



Photo 8: View of hazardous materials in the site buidling

APPLIED WATER RESOURCES



Photo 9: View of storage inside site building.



Photo 10: View of Verizon Wireless tower and fenced enclosure at the site.

APPLIED WATER RESOURCES



Photo 11: View of generator with day tank in Verizon Wireless enclosure



Photo 12: View of storage outside in rear of part of site

APPLIED WATER RESOURCES



Photo 13: View of storage outside in rear of part of site.



Photo 14: View of paint, tires, and other hazardous materials being collected for disposal outside in the rear part of the site.

APPLIED WATER RESOURCES

January 10, 2014

Calvano Development
900 Bush Street, Penthouse 1
San Francisco, CA 94109

Attn: Mark Calvano

Re: Phase I Environmental Site Assessment
1160-1170 Terra Bella
Mountain View, CA

Dear Mr. Calvano:

Thank you for providing Applied Water Resources Corporation (AWR) the opportunity to assist you in identifying the environmental issues at 1160-1170 Terra Bella, in Mountain View, California.

The site is a single story approximately 8,000 square foot building divided into two suites on an approximately 20,000 square foot rectangular parcel. The building was constructed in approximately 1960. Prior to this, the site appears to have been used as agricultural land since at least 1939.

The building appears to have been used primarily as offices and light industrial uses since its initial construction. No indication of significant hazardous material use or storage in the building was observed during the site reconnaissance or discovered during our historical research for this Phase I ESA.

A monitoring well was installed just off of the southeastern corner of the property for a release originating on the property directly south of the subject site at 1175 Terra Bella. In addition, monitoring wells were installed on the properties west of the subject site for the investigation associated with a release of gasoline from former underground storage tanks at the former Texaco Station at 975 Shoreline Blvd (at the southeast corner of the intersection of North Shoreline Boulevard and Terra Bella Avenue), southwest of the subject site. No sampling appears to have been done on the subject site for either of the releases but based on the proximity to the site, there is a potential that groundwater and/or soil gas vapor impacts may extend onto the subject

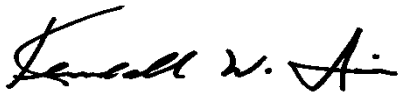
site. Both releases were closed with the remaining impacts considered not likely to impact the site. The subject site was never named as a possible source of the impacts and the source releases have been closed. This is classified as a Historical Recognized Environmental Condition (HREC) since the impacts have been mitigated and the release investigations have been closed indicating they have been resolved to the satisfaction of the overseeing regulatory agency.

The site is near but does not appear to be impacted by several known solvent releases impacting groundwater over a large area west of Shoreline Boulevard. The sources and responsible parties for the regional plumes are known and the investigation and remediation is ongoing. The subject site was never named as a possible source of the impacts and does not appear to have been significantly impacted by the regional solvent plumes. No additional investigation is recommended with regards to the regional solvent plumes.

Based on the age of the building, there is a potential asbestos-containing materials and/or lead based paint are present in the building. Although this is not a recognized environmental condition (REC) as defined by the ASTM Standard Practice, any renovation or demolition must comply with applicable regulations regarding asbestos-containing materials and lead based paint including appropriate testing and if required, mitigation. AWR is conducting an asbestos and lead based paint survey at the subject site and the results will be submitted under separate cover. Please refer to that report for information and recommendations for asbestos and lead-based paint at the subject site.

AWR looks forward to working with you on this project. Please contact me at 408.496.0801 or at kprice@erscorp.us if you have any questions or comments.

Best Regards
APPLIED WATER RESOURCES CORPORATION



Kendall W. Price CEG, REA
Principal Consultant/Regional Manager

PHASE I ENVIRONMENTAL SITE ASSESSMENT

1160-1170 Terra Bella

Mountain View, California

January 10, 2014

Prepared For:

Calvano Development

900 Bush Street, Penthouse 1

San Francisco, CA 94109

APPLIED WATER RESOURCES

EXECUTIVE SUMMARY

Consultant:	Applied Water Resources Corporation (AWR)
Subject Property:	1160-1170 Terra Bella, Mountain View, California
Client:	Calvano Development
Location:	The site address is 1160-1170 Terra Bella, Mountain View, Santa Clara County, California. The site consists of one approximately 20,000 square foot rectangular. The site is located on the northern side of Terra Bella. The site is referenced as Santa Clara County Assessor's Parcel Number 153-15-014.
Current Use:	The site is improved with one single-story building divided into two suites with addresses of 1160 and 1170 Terra Bella. The suite at 1160 Terra Bella is currently offices and the suite at 1170 Terra Bella is Oxigraf, a manufacturer of oxygen sensors and analyzers.
Current Owner:	The property is currently owned McCaul 1991 Trust, Bruce SP dated 6/19/91, who has owned the property since 1998.
Site Characteristics:	The property is approximately 20,000 square feet and is improved with a single story approximately 8000 square foot building divided into two suites. The remainder of the site is paved parking areas with landscaping near the front of the building.
Vicinity Characteristics:	The property is in a mixed commercial and light industrial within the City of Mountain View, California.
Purpose:	This Phase I Environmental Site Assessment (ESA) was performed to (1) identify any recognized environmental conditions (RECs), and (2) permit a user to satisfy one of the requirements to qualify for the innocent landowner defense under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) liability protection (42 U.S.C. §9601). All components of this ESA were performed or overseen by Environmental Professionals as defined in the All Appropriate Inquiries (AAI)

Standard and the American Society for Testing and Materials (ASTM) E 1527-05.

Conclusions:

The building appears to have been used primarily as offices and light industrial uses since its initial construction. No indication of significant hazardous material use or storage in the building was observed during the site reconnaissance or discovered during our historical research for this Phase I ESA.

A monitoring well was installed just off of the southeastern corner of the property for a release originating on the property directly south of the subject site at 1175 Terra Bella. In addition, monitoring wells were installed on the properties west of the subject site for the investigation associated with a release of gasoline from former underground storage tanks at the former Texaco Station at 975 Shoreline Blvd (at the southeast corner of the intersection of North Shoreline Boulevard and Terra Bella Avenue), southwest of the subject site. No sampling appears to have been done on the subject site for either of the releases but based on the proximity to the site, there is a potential that groundwater and/or soil gas vapor impact may extend onto the subject site. Both releases were closed with the remaining impacts considered not likely to impact the site. The subject site was never named as a possible source of the impacts and the source releases have been closed. This is classified as a Historical Recognized Environmental Condition (HREC) since the impacts have been mitigated and the release investigations have been closed indicating they have been resolved to the satisfaction of the overseeing regulatory agency.

The site is near but does not appear to be impacted by several known solvent releases impacting groundwater over a large area west of Shoreline Boulevard. The sources and responsible parties for the regional plumes are known and the investigation and remediation is ongoing. The subject site was never named as a possible source of the impacts and does not appear to have been significantly impacted by the regional solvent plumes. No additional investigation is recommended with regards to the regional solvent plumes.

Based on the age of the building, there is a potential asbestos-containing materials and/or lead based paint are present in the building. Although this is not a recognized environmental condition (REC) as defined by the ASTM Standard Practice, any renovation or demolition must comply with applicable regulations regarding asbestos-containing materials and lead based paint including appropriate testing and if required, mitigation. AWR is conducting an asbestos and lead based paint survey at the subject site and the results will be submitted under separate cover. Please refer to that report for information and recommendations for asbestos and lead-based paint at the subject site.

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1.0 INTRODUCTION

On behalf of Calvano Development (hereinafter referred to as the "Client"), Applied Water Resources Corporation (AWR), performed a Phase I Environmental Site Assessment (ESA) of the property located at 1160-1170 Terra Bella, Mountain View, Santa Clara County, California (hereinafter referred to as the "subject property").

1.1 Purpose

This ESA was performed to provide a record of the site conditions at the subject property and to evaluate what, if any, recognized environmental conditions exist at this site. Additional goals of this ESA are to identify recognized environmental conditions (RECs) from current and historical practices on the subject property and surrounding area and to assist the Client to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations from Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) liability.

1.2 Detailed Scope of Services

The following tasks were performed in accordance with the Scope of Services.

- Visual site inspection of the subject property to investigate for recognized environmental conditions. AWR is not responsible for inspecting areas covered by parked vehicles, overgrown vegetation, and other obstacles preventing access.

- A historical review of the use and improvements of the subject property through a review of aerial photographs, historical topographic maps, city directories, fire insurance maps, title reports, and/or building department records.

- A review of available geologic and hydrogeologic literature concerning the property and surrounding area.

- Interviews of persons familiar with the history of the subject property, including key site managers, owners, tenants, past tenants, and/or previous owners.

- Review of appropriate federal, state, and local regulatory agencies to reveal known hazardous wastes sites or significant leaks or spills of hazardous materials that may have occurred at the subject property and immediate vicinity.

- Interviews with applicable local agencies familiar with the areas in the vicinity of the subject property such as local fire departments, health departments, Regional Water Quality Control Board, and/or other local government agencies.

1.3 Significant Assumptions

No significant assumptions were made during this Phase I ESA.

1.4 Limitations and Exceptions of Agreement

AWR has performed the services for this project in accordance with our proposal, and within the current standards of the American Society for Testing and Materials (ASTM 1527-05) for Phase I Environmental Site Assessments and the standards for All Appropriate Inquiries (AAI) approved by the Federal Environmental Protection Agency. Except for the representations set forth in this Phase I ESA, no other representations, guarantees, or warrantees are either expressed or implied. A record search was limited to reasonably ascertainable information that could be obtained within 20 calendar days.

The review was limited to a search for RECs at the subject property. The term REC means the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimus* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

There is no investigation that is thorough enough to preclude the presence of hazardous materials that presently, or in the future, may be considered hazardous at the site. Because regulatory evaluation criteria are constantly changing, concentrations of contaminants presently considered low may, in the future, fall under more stringent regulatory standards that require remediation.

The Site Reconnaissance was limited to visual observation of surface conditions at the subject property. Interviews with public agency personnel were conducted. Reasonably ascertainable information was reviewed. This approach reflects current ASTM standards and AAI regulations.

Where there is a conflict between the environmental database and AWR's actual knowledge with regard to the distance and direction from the subject property of sites listed on the database, information obtained by AWR from the site reconnaissance was used. Whenever feasible, AWR notes such conflict within the text of the report.

This ESA addresses recognized environmental conditions at the subject property. However, certain conditions, such as those listed below may not be revealed:

1) naturally occurring toxic materials in subsurface soils, rocks, or water, or toxicity of onsite flora;
2) toxicity of substances common in current habitable environments, such as stored household products, building materials, and consumables;
3) biological pathogens;
4) contaminant plume below the depths sampled or from remote source;
5) contaminants or contaminant concentrations that do not violate present regulatory standards, but may violate future standards; and
6) unknown site contamination, such as illegal dumping and/or accidental spillage which may occur following the site visit by AWR.

Opinions and judgments expressed herein, which are based on our understanding and interpretation of current regulatory standards, should not be construed as legal opinions. This document and the information contained herein have been prepared solely for the Client and any reliance on this report by third parties not authorized by the Client shall be at such party's sole risk.

Conducting an AAI Phase I ESA alone does not provide a landowner with protection against CERCLA liability. Landowners who want to qualify as bona fide prospective purchasers or contiguous property owner must comply with all of the statutory requirements identified in CERCLA Section 107(r) and 107(q).

1.5 Special Terms and Conditions

No special terms or conditions were agreed upon for conducting this Phase I ESA.

1.6 User Reliance

As specified in ASTM E 1527-05, Sections 7.5.2 and 7.5.2.1, AWR is not required to independently verify the information provided by the User (Client), obtained from interviews, previous environmental reports, and/or reviewed documents during records review.

2.0 SITE DESCRIPTION

2.1 Site Location

The site address is 1160-1170 Terra Bella, Mountain View, Santa Clara County, California. The site consists of one approximately 20,000 square foot parcel. The site is located on the northern

side of Terra Bella. The site is referenced as Santa Clara County Assessor's Parcel Number 153-15-014.

2.2 Site and Vicinity General Characteristics

The property is in a mixed commercial and light industrial area within the City of Mountain View, California.

2.3 Current and Proposed Use of the Property

The property is improved with a single story office building divided into multiple tenant spaces.

It is our understanding Calvano Development is proposing to purchase the site. No information on proposed use of the property was provided to AWR.

2.4 Description of Structures, Road, and Other Improvements

The site is a single-story rectangular building divided into two separate suites on an approximately 20,000 square foot rectangular parcel. The building was constructed in approximately 1960.

The remainder of the site is occupied by asphalt parking and driving areas, sidewalks to and around the building, and landscaping near the front of the building.

The site is a rectangular shaped parcel located on the northern side of Terra Bella and is accessed from Terra Bella.

The subject property is connected to the municipal water and sanitary and storm sewer systems.

2.5 Current Uses of the Adjoining Properties

The property is in a mixed use area. East of the site is a residence, west of the site is a closed restaurant, .southwest of the site is a Taco Bell restaurant, and the remaining adjacent properties appear to be a mixture of light industrial and commercial uses.

3.0 USER PROVIDED INFORMATION

3.1 Title Records

An Environmental Liens Search was performed by EDR as a part of this Phase I ESA. The lien search, including the most recent grant deed, is included in Appendix J. No additional title information was provided by the user.

3.2 Environmental Liens or Activity and Use Limitations

The Environmental Professional is required to search for Activity and Use Limitations (AULs) if such records are available in *"publicly available lists or registries."* Typical AULs include land use restrictions (LURs), institutional controls (ICs), and Engineering Controls (ECs). Typical ICs include: 1) governmental controls such as zoning; 2) proprietary controls such as covenants or easements; 3) enforcement documents such as orders or consent decrees; and 4) information devices such as land record or deed notices. Typical ECs include: 1) passive measures such as vapor barriers and setbacks; 2) active measures such as remediation systems; and 3) monitoring of passive and/or active measures. According to 40 CFR Part 312.26 (b) (7), ICs are to be investigated on the subject property and according to 40 CFR Part 312.26 (b) (6) and (c) (2) (ii), ECs are to be reviewed to a 0.5 mile radius of the subject property. ASTM 1527-05 recommends that ECs be reviewed only for the subject property.

An Environmental Liens Search was performed for the subject property. The Environmental Liens Search did not report any environmental liens associated with the subject property.

3.3 Specialized Knowledge

AWR was not informed of any specialized knowledge associated with the subject property or the area in the vicinity of the subject property.

3.4 Commonly Known or Reasonably Ascertainable Information

AWR was did not discover any commonly known or reasonable ascertainable information associated with the subject property or the area in the vicinity of the subject property.

3.5 Valuation Reduction for Environmental Issues

AWR was not provided with purchase price information.

3.6 Owner, Property Manager, and Occupant Information

The property is currently owned by McCaul 1991 Trust, Bruce SP dated 6/19/91, who has owned the property since 1998.

The property is occupied by several different office tenants.

No property manager was identified to AWR.

3.7 Reason for Performing the Phase I ESA

AWR has performed this Phase I ESA in preparation of a proposed property transfer.

3.8 Previous Reports

AWR was not provided with any previous reports for the subject site.

4.0 RECORDS REVIEW

The government environmental agency databases AWR reviewed are listed on pages 4 through 7 of the Map Findings Summary of the database obtained from Environmental Data Resources, Inc. (EDR), included as Appendix C. Please refer to the EDR report in Appendix C for additional information on the searched databases including the full names of the databases, the regulatory agency overseeing the databases, a summary of the types of facilities listed on each database, and the dates the information was obtained from the regulatory agencies. Where locations and distances reported by EDR were observed to be incorrect, AWR amended the information to provide a more accurate assessment.

AWR also requested information from the San Francisco Bay Regional Water Quality Control Board, the Santa Clara County Environmental Health Department, the Santa Clara Valley Water District, the Mountain View Fire Department, and the California Department of Toxic Substance Control Envirostor database. Information from these sources for the subject site is included in Section 4.1.1. Information on nearby releases is included in Section 4.1.2.

4.1 Standard Environmental Record Sources

4.1.1 Subject Property

The site address was not listed on any of the searched databases.

AWR also requested information from the San Francisco Bay Regional Water Quality Control Board, the Santa Clara County Environmental Health Department, the Santa Clara Valley Water District, the Mountain View Fire Department, and the California Department of Toxic Substance Control Envirostor database.

Mountain View Fire Department

AWR reviewed files for the site at the Mountain View Fire Department. The Mountain View Fire Department is the Certified Unified Program Agency (CUPA) for properties in Mountain View. As a CUPA, the Mountain View Fire Department is responsible for implementing the following programs: Above Ground Storage Tanks, California Accidental Release Prevention Program (CalARP), Hazardous Materials Management Plans/Business Plans, Hazardous Waste Generator, On Site Treatment of Hazardous Wastes, and Underground Storage Tanks. The Mountain View Fire Department had no record of hazardous materials or underground storage tanks at the site. The only information available from the Mountain View Fire Department was life safety records such as sprinklers and fire extinguishers.

Santa Clara County Environmental Health Department

AWR reviewed files at the Santa Clara County Environmental Health Department Leaking Underground Storage Tank Oversight Program (LUSTOP). There were no release files for the subject site address. Files reviewed for nearby releases potentially impacting the site are discussed in Section 4.1.2.

California Department of Toxic Substance Control

AWR reviewed files at the California Department of Toxic Substance Control Envirostor database. There were no release files for the subject site address. Files reviewed for nearby releases potentially impacting the site are discussed in Section 4.1.2.

Regional Water Quality Control Board

AWR reviewed files at the Regional Water Quality Control Board Geotracker database. There were no release files for the subject site address. Files reviewed for nearby releases potentially impacting the site are discussed in Section 4.1.2.

US EPA Region 9

AWR reviewed files available online for the US Environmental Protection Agency (EPA) Region 9 Superfund sites. There were no release files for the subject site address. Files reviewed for nearby releases potentially impacting the site are discussed in Section 4.1.2.

4.1.2 Offsite Listings

Based upon a review of groundwater monitoring data collected at nearby release investigations, groundwater beneath the subject property was calculated to flow toward the north and was encountered at depths ranging from 4 to 16 feet below ground surface (bgs).

Based on this inferred groundwater flow direction, offsite listings that are adjacent to or south of the subject site have the greatest potential to impact the subject site. The sites of note are discussed below:

- There are six federal national priority list (NPL) sites, also known as Superfund sites, within one mile of the site including two which are within ¼-mile of the site. The NPL listings are Moffett Naval Air Station, Intel Corp (Mountain View Plant) Teledyne Semiconductor, Spectra-Physics, Inc., Jasco Chemical Corp., and CTS Printex, Inc. The NPL listings are primarily for releases of solvents and several of the plumes are mingled. In addition, there are several state-overseen releases that have contributed to the regional impacts. AWR reviewed information in the EDR report as well as additional information obtained from EPA Region 9, California DTSC, and the RWQCB. Based on our review of the information, the site is near but does not appear to be impacted by several known solvent releases impacting groundwater over a large area. It appears that the intermingled plumes are primarily west of Shoreline Boulevard. The sources and responsible parties for the regional plumes are known and the investigation and remediation is ongoing. The subject site was never named as a possible source of the impacts and does not appear to have been significantly impacted by the regional solvent plumes.

- Shippen Property at 1175 Terra Bella was identified on the CA HIST CORTESE, CA LUST and CA HIST LUST databases. These are databases that list facilities that have had releases from underground storage tanks. AWR obtained additional information on this release from the Santa Clara County Environmental Health Department LUSTOP program. Monitoring wells were installed on the property adjacent to the site to the east and on the source property directly south of the subject site. No sampling appears to have been done on the subject site but based on the sampling results on the adjacent properties, it is possible the groundwater of soil gas at the site were impacted by this release. The subject site was never named as a possible source of the impacts and the source release has been closed since 2001. This is classified as a Historical Recognized Environmental Condition (HREC) since the impacts have been mitigated, and the release investigation has been closed indicating it has been resolved to the satisfaction of the overseeing regulatory agency.

- Texaco (CVX #21-1179) at 975 Shoreline Blvd (formerly known as Sterlin Road) was identified on the CA LUST and CA HIST LUST databases. These are databases that list facilities that have had releases from underground storage tanks. AWR obtained additional information on this release from the Santa Clara County Environmental Health Department LUSTOP program. Monitoring wells were installed on the property adjacent to the site to the northwest and the southwest in 1990 for the investigation associated with a release of gasoline from former underground storage tanks at the former Texaco Station at

975 Shoreline Blvd (at the southeast corner of the intersection of North Shoreline Boulevard and Terra Bella Avenue). Sampling conducted from 1990 through 1992 revealed significant gasoline impacts in the groundwater samples from the wells near the subject site. When the remediation activities began at the subject site, the concentrations decreased. Between 1992 and 1994, the concentrations in the samples collected from the well at the site dropped significantly and stabilized at lower concentrations. No sampling appears to have been done on the subject site but based on the sampling results on the adjacent properties; it is possible the groundwater and soil gas at the site may have been impacted by this release. The subject site was never named as a possible source of the impacts and the source release has been closed. This is classified as a Historical Recognized Environmental Condition (HREC) since the impacts have been mitigated, the subject site no longer appears to be impacted, and the release investigation has been closed indicating it has been resolved to the satisfaction of the overseeing regulatory agency.

- Robb-Jack Corp. at 1080 Linda Vista was identified on the CA LUST and CORTESE databases. These are databases that list facilities that have had releases from underground storage tanks. AWR obtained additional information on this release from the Santa Clara County Environmental Health Department LUSTOP program. Based on our review of the information, groundwater impacts appear to have been minimal and it does not appear that this release impacted the subject site. The release was closed in 1996 indicating no additional investigation or remediation is required.

Based on the distance, direction, and/or nature of the remaining listings, in our opinion, none of the other listings are likely to impact the subject site.

4.1.3 Other Sites of Potential Environmental Concern

AWR did not identify any other sites of environmental concern. AWR reviewed the sites in the EDR Database that were unable to be mapped. None of the listings appeared to correspond to the site or adjacent properties. None of the listings appear likely to have the potential to impact the site.

4.2 Additional Environmental Record Sources

AWR reviewed information on this site from the Mountain View Fire Department, the California Department of Toxic Substance Control (DTSC) Envirostor database, the Santa Clara County Environmental Health Department LUSTOP program, the California Geotracker Database, and US EPA. Information from these sources for the subject site was discussed in Section 4.1.1. Information from these sources on the nearby properties was included in Section 4.1.2.

4.3 Physical Setting Sources(s)

The EDR Report in Appendix C indicates that the underlying hard rock geology consists of Cenozoic Quaternary stratified sequence. Surface soils in the vicinity of the site are classified by the United States Department of Agriculture (USDA) Soil Conservation Service (SCS) as Botella clay loam.

Based upon a review of groundwater monitoring data collected at nearby release investigations, groundwater beneath the subject property was calculated to flow toward the north and was encountered at depths ranging from 4 to 16 feet below ground surface (bgs).

Current site-specific information on groundwater flow direction, depth, and quality can only be confirmed through the installation and survey of a minimum of three on-site groundwater-monitoring wells, which was beyond the scope of this assessment.

According to the 1999 USGS Mountain View, California Quadrangle Map, the site elevation is approximately 36 feet above mean sea level with a slight regional topographic slope downward to the north.

4.4 Historical Use Information on the Property

AWR reconstructed a brief history of the subject property through a review of historical Topographic Maps; the EDR City Abstract; available records, permits and other documents available at Santa Clara County; and historical aerial photographs provided by EDR. A summary of historical sources can be found in Section 12.0 of this Report with pertinent documents available in Appendices.

According to historical sources, the subject property appears to have been used as agricultural fields since at least 1939 through approximately 1960 when the existing building was constructed at the site and the remainder of the property was improved similar to its current configuration. .The building appears to have been used primarily as offices since its initial construction.

4.5 Historical Use Information on Adjoining Properties

The surrounding properties were primarily agricultural fields until being developed with light industrial development in the 1960s and early 1970s.

5.0 SITE RECONNAISSANCE

The goal of the site reconnaissance is to obtain information indicating the likelihood of identifying RECs in connection with the subject property. The subject property is visually observed and any structures located on the property are observed to the extent not obstructed by bodies of water, adjacent buildings, and/or other obstructions.

5.1 Methodology and Limiting Conditions

The exterior site reconnaissance was performed by walking open areas of the property in a grid fashion. Special attention was given to observe surfaces adjacent to the structures and sidewalks, surfaces in storage areas, and potential conduits to the subsurface such as drains and sumps. The interior site reconnaissance was performed by systematically observing each room and open space of the property. Additional attention was given to doors, utility rooms, storage areas, areas where hazardous materials were used or stored, and any other accessible areas.

5.2 General Site Setting

On December 13, 2013, Ms. Janelle Amendola of AWR conducted a site reconnaissance at the subject property. Ms. Amendola was unaccompanied during the site visit.

5.3 Exterior Observations

The majority of the site is occupied by the building and asphalt parking and drive areas east and west of the building with landscaping near the front of the building. The rear of the building is the northern property boundary

No staining, stressed vegetation, or unusual odors were observed at the site.

5.4 Interior Observations

The building was used as offices for several tenants at the time of the site assessment. No indication of current or former non-office use of the building was observed during the site reconnaissance.

The only hazardous materials observed at the site were routine janitorial and maintenance materials. No evidence of significant former hazardous material use or storage tanks were observed at the site.

No staining, stressed vegetation, or unusual odors were observed at the site.

5.4 Non-Scope Items

The following non-scope items were included as part of this Report based on readily available information that was reviewed.

5.4.1 Suspect Asbestos Containing Building Materials and Lead-Based Paint

Based on the age of the buildings, there is a potential that asbestos containing materials and/or lead based paint have been used at the site. A full survey has been completed by AWR and will be forwarded under separate cover.

5.4.2 Radon

No radon survey was conducted. According to the EDR report, Santa Clara County is in zone 2, indicating the average indoor level is between 2 and 4 picocuries per liter (pCi/L). The US Environmental Protection Agency (USEPA) action level is 4 pCi/L.

6.0 INTERVIEWS

6.1 Interview with Owner Representative

No site owner representative was identified.

6.2 Interview with Site Manager

No Site Manager was identified.

6.3 Interviews with Occupants

AWR conducted informal interviews with the site occupants during the site reconnaissance. Given that the current occupants only use the building for offices, formal interviews were not conducted.

6.4 Interviews with Local Government Officials

AWR reviewed information from the Mountain View Fire Department, the Santa Clara County Environmental Health Department, the San Francisco Bay Regional Quality Control Board, and the California Department of Toxic Substance Control. Information from these requests is presented elsewhere throughout this report.

6.5 Interviews with Others

AWR did not perform any interviews with others regarding the subject property.

7.0 FINDINGS

The building appears to have been used primarily as offices and light industrial uses since its initial construction. No indication of significant hazardous material use or storage in the building was observed during the site reconnaissance or discovered during our historical research for this Phase I ESA.

A monitoring well was installed just off of the southeastern corner of the property for a release originating on the property directly south of the subject site at 1175 Terra Bella. In addition, monitoring wells were installed on the properties west of the subject site for the investigation associated with a release of gasoline from former underground storage tanks at the former Texaco Station at 975 Shoreline Blvd (at the southeast corner of the intersection of North Shoreline Boulevard and Terra Bella Avenue), southwest of the subject site. No sampling appears to have been done on the subject site for either of the releases but based on the proximity to the site, there is a potential that groundwater and/or soil gas vapor impacts may have extended onto the subject site. Both releases were closed with the remaining impacts considered not likely to impact the site. The subject site was never named as a possible source of the impacts and the source releases have been closed. This is classified as a Historical Recognized Environmental Condition (HREC) since the impacts have been mitigated and the release investigations have been closed indicating they have been resolved to the satisfaction of the overseeing regulatory agency.

The site is near but does not appear to be impacted by several known solvent releases impacting groundwater over a large area west of Shoreline Boulevard. The sources and responsible parties for the regional plumes are known and the investigation and remediation is ongoing. The subject site was never named as a possible source of the impacts and does not appear to have been significantly impacted by the regional solvent plumes. No additional investigation is recommended with regards to the regional solvent plumes.

Based on the age of the building, there is a potential asbestos-containing materials and/or lead based paint are present in the building. Although this is not a recognized environmental condition (REC) as defined by the ASTM Standard Practice, any renovation or demolition must comply with applicable regulations regarding asbestos-containing materials and lead based paint including appropriate testing and if required, mitigation. AWR is conducting an asbestos and lead based paint survey at the subject site and the results will be submitted under separate cover. Please refer to that report for information and recommendations for asbestos and lead-based paint at the subject site.

7.1 Data Gaps

AWR was not able to review a Chain of Title Report for the subject property. It is AWR's opinion that the lack of this information does not pose a significant data gap, as an environmental lien search was performed for the subject property and revealed no issues.

AWR was also not able to interview past occupants or current or past owners. Given the office use of the site, in our opinion, this is not a significant data gap.

7.2 Continuing Obligations

Continuing obligations start on the date that a landowner acquires title to a property. The landowner must: 1) comply with land use restrictions and institutional controls; 2) take "reasonable" steps with respect to hazardous substances releases; 3) provide full cooperation, assistance and access to persons that are authorized to conduct response actions or natural resource restoration; 4) comply with information requests and administrative subpoenas; and 5) provide all legally required notices. Continuing obligations must be satisfied to maintain liability protection under CERCLA for innocent landowners, bona fide prospective purchasers, and contiguous property owners.

AWR identified no ongoing continuing obligations for the subject site.

8.0 OPINION

The petroleum release on the adjacent properties to the south and southwest of the subject site have both been remediated and closed by the overseeing regulatory agency but it is possible that groundwater and/or soil gas vapors at the site were impacted by these releases. The subject site was never named as a potential source of the impacts and both release have been closed by the overseeing regulatory agencies indicating that the releases have been resolved to their satisfaction. Any impacts to the site are considered to be historical recognized environmental conditions (HRECs) since the source sites have been closed.

The regional solvent releases do not appear to have significantly impacted the site.

The potential for asbestos and/or lead based paint in the building materials at the site is not a REC but must be managed appropriately.

No other potential RECs were identified in conjunction with the site. No additional environmental assessment is recommended at this time.

9.0 CONCLUSIONS

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-05 of 1160-1170 Terra Bella, Mountain View, Santa Clara County, California, the subject property. Any exceptions to, or deletions from, this practice are described in Section 5.1 of this Report.

This assessment has revealed no evidence of Recognized Environmental Conditions in connection with the subject property, except the following:

The building appears to have been used primarily as offices and light industrial uses since its initial construction. No indication of significant hazardous material use or storage in the building was observed during the site reconnaissance or discovered during our historical research for this Phase I ESA.

A monitoring well was installed just off of the southeastern corner of the property for a release originating on the property directly south of the subject site at 1175 Terra Bella. In addition, monitoring wells were installed on the properties west of the subject site for the investigation associated with a release of gasoline from former underground storage tanks at the former Texaco Station at 975 Shoreline Blvd (at the southeast corner of the intersection of North Shoreline Boulevard and Terra Bella Avenue), southwest of the subject site. No sampling appears to have been done on the subject site for either of the releases but based on the proximity to the site, there is a potential that groundwater and/or soil gas vapor may have extended onto the subject site. Both releases were closed with the remaining impacts considered not likely to impact the site. The subject site was never named as a possible source of the impacts and the source releases have been closed. This is classified as a Historical Recognized Environmental Condition (HREC) since the impacts have been mitigated and the release investigations have been closed indicating they have been resolved to the satisfaction of the overseeing regulatory agency.

Based on the age of the building, there is a potential asbestos-containing materials and/or lead based paint are present in the building. Although this is not a recognized environmental condition (REC) as defined by the ASTM Standard Practice, any renovation or demolition must comply with applicable regulations regarding asbestos-containing materials and lead based paint including appropriate testing and if required, mitigation. AWR is conducting an asbestos and lead based paint survey at the subject site and the results will be submitted under separate cover. Please refer to that report for information and recommendations for asbestos and lead-based paint at the subject site.

10.0 DEVIATIONS

AWR did not evaluate the purchase price versus property value as AWR is not qualified to evaluate this issue.

11.0 ADDITIONAL SERVICES

AWR has also completed asbestos and lead sampling at the subject site. The results of that were presented under separate cover. No other additional services were performed in conjunction with this Phase I ESA.

12.0 REFERENCES

EDR City Abstract:– 1957-2012.

Historic Sanborn® Fire Insurance Maps: No coverage.

Aerial Photographs: 1939, 1948 1956, 1968, 1974, 1982, 1991, 1999, 2005, 2006, 2009, 2010, and 2012.

The following governmental agencies were contacted to obtain the information in this report:

Jurisdiction	Agency
Federal	U.S. Environmental Protection Agency, Region IX, San Francisco
State and Regional	State of California Environmental Protection Agency, Department of Toxic Substances Control, Berkeley San Francisco Bay Regional Water Quality Control Board
County and Local	Santa Clara County Environmental Health Dept. Mountain View Building Department

Websites:
http://www.envirostor.dtsc.ca.gov/public/
http://www.geotracker.swrcb.ca.gov/
http://www.dhs.ca.gov/radon/default.htm

13.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

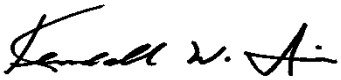
We declare that to the best of our professional knowledge and belief, we meet the definition of an Environmental Professional as defined in §312.21 of 40 CFR Part 312 and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Prepared by:



Janelle Amendola, REA
Environmental Assessor

Reviewed by:



Kendall W. Price, CEG, REA
Regional Manager/Principal Consultant

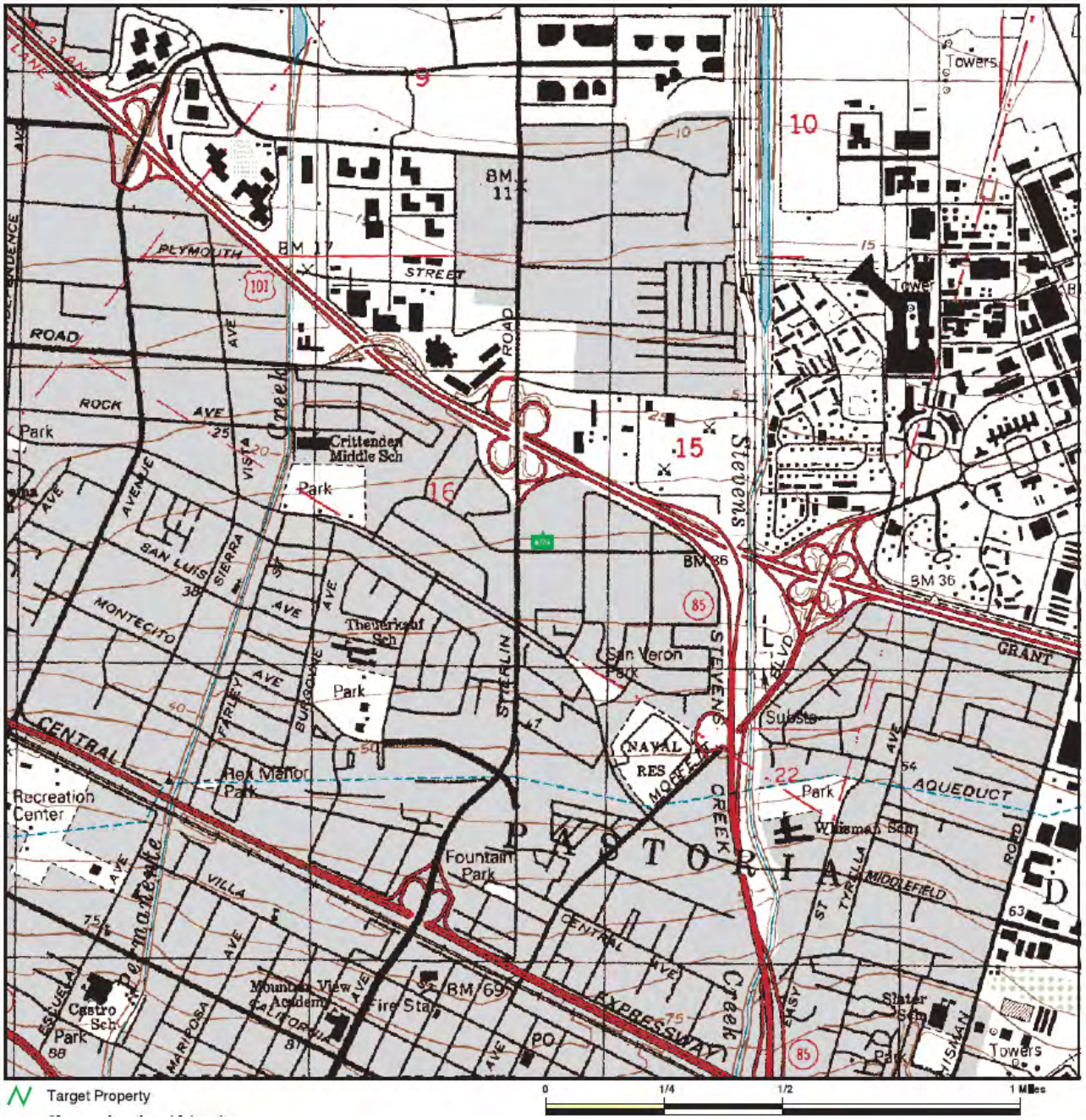
14.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Pursuant to 40 CFR 10 and according to 40 CFR Part 312, the Environmental Professionals listed in Section 13.0 possess sufficient education, training, and experience necessary to exercise the professional judgment to develop the opinions and conclusions regarding conditions indicative of releases or threatened releases on, at, in or to a property, sufficient to meet the objectives and performance factors in §312.20(e) and (f). See Appendix D for resumes on the following individuals:

Ms. Janelle Amendola

Mr. Kendall Price

APPENDIX A
Site Location Map



NOTE: Base map prepared by USGS and provided to ERS by EDR

N

FIGURE 1 – Site Location

1160-1170 Terra Bella
Mountain View, California

APPLIED WATER RESOURCES

APPENDIX B
Site Photographs



Photo 1: View of building exterior



Photo 2: View of building exterior

APPLIED WATER RESOURCES

January 10, 2014

Calvano Development
900 Bush Street, Penthouse 1
San Francisco, CA 94109

Attn: Mark Calvano

Re: Phase I Environmental Site Assessment
1130 Terra Bella
Mountain View, CA

Dear Mr. Calvano:

Thank you for providing Applied Water Resources Corporation (AWR) the opportunity to assist you in identifying the environmental issues at 1130 Terra Bella, in Mountain View, California.

Three monitoring wells were installed at the site in August 1988 to evaluate the potential for the site to have been a contributor to the regional groundwater in the area. Documents indicate that volatile organic compounds have been stored at the site in the past. In 1989 the Mt. View Fire Department granted Olin Mesa Corporation facility closure with regards to all of the hazardous materials stored and used at the site.

The most recent grounding water sampling and analysis was performed on July 27, 2005. All groundwater samples were analyzed for VOCs using EPA Method 8260B. The laboratory results indicated the presence of TCE and cis-1, 2-DCE at respective concentrations of 46 ug/L and 9.0 ug/L. These results were from up gradient well sample MW-3. These values are above the current Environmental Screening Levels (ESLs) where groundwater is a potential source of drinking water (Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, RWQCBSF Bay region, Interim Final-February 2005, Table 1). These values were the highest detected in the water samples collected from the site. Since these test results represent the upgradient groundwater contaminant values, it is likely that the source of the VOC contamination is from an upgradient, offsite source."

The area around the subject site has numerous identified businesses that have had chemical or hazardous material releases. These sites are in various phases of investigation or remediation.

None of the documents we reviewed identified the subject site as being an agency listed site. Even though the site has a history of hazardous materials usage, it appears that there has been no identified release of hazardous materials onto the site. The groundwater contamination detected in the onsite monitoring wells appears to be the result of the migration of VOCs from an upgradient, off-site source.

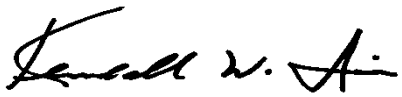
The source of the chlorinated solvent impacts has never been conclusively determined. The unresolved impacts, regardless of whether the source is on or off of the site, are a recognized environmental condition as defined in the ASTM standard practice.

A deed restriction prohibiting the use of chlorinated solvents at the site was recorded in 2005.

Based on the age of the building, there is a potential asbestos-containing materials and/or lead based paint are present in the building. Although this is not a recognized environmental condition (REC) as defined by the ASTM Standard Practice, any renovation or demolition must comply with applicable regulations regarding asbestos-containing materials and lead based paint including appropriate testing and if required, mitigation. AWR is conducting an asbestos and lead based paint survey at the subject site and the results will be submitted under separate cover. Please refer to that report for information and recommendations for asbestos and lead-based paint at the subject site.

AWR looks forward to working with you on this project. Please contact me at 408.496.0801 or at kprice@erscorp.us if you have any questions or comments.

Best Regards
APPLIED WATER RESOURCES CORPORATION



Kendall W. Price CEG, REA
Principal Consultant/Regional Manager

PHASE I ENVIRONMENTAL SITE ASSESSMENT

1130 Terra Bella

Mountain View, California

January 10, 2014

Prepared For:

Calvano Development

900 Bush Street, Penthouse 1

San Francisco, CA 94109

APPLIED WATER RESOURCES

EXECUTIVE SUMMARY

Consultant:	Applied Water Resources Corporation (AWR)
Subject Property:	1130 Terra Bella, Mountain View, California
Client:	Calvano Development
Location:	The site address is 1130 Terra Bella, Mountain View, Santa Clara County, California. The site consists of one approximately 0.86 acre rectangular. The site is located on the northern side of Terra Bella. The site is referenced as Santa Clara County Assessor's Parcel Number 153-15-026.
Current Use:	The site is improved with one single-story building divided into office and warehouse space. The site is currently occupied by DataNet IT, an IT consultant.
Current Owner:	The property is currently owned SpRK LLC, who has owned the property since 2006.
Site Characteristics:	The property is approximately 0.86 acre and is improved with a single story approximately 12,300 square foot building. The remainder of the site is paved parking areas with landscaping near the front of the building.
Vicinity Characteristics:	The property is in a mixed commercial and light industrial within the City of Mountain View, California.
Purpose:	This Phase I Environmental Site Assessment (ESA) was performed to (1) identify any recognized environmental conditions (RECs), and (2) permit a user to satisfy one of the requirements to qualify for the innocent landowner defense under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) liability protection (42 U.S.C. §9601). All components of this ESA were performed or overseen by Environmental Professionals as defined in the All Appropriate Inquiries (AAI) Standard and the American Society for Testing and Materials (ASTM) E 1527-05.

Conclusions:

Three monitoring wells were installed at the site in August 1988 to evaluate the potential for the site to have been a contributor to the regional groundwater in the area. Documents indicate that volatile organic compounds have been stored at the site in the past. In 1989 the Mt. View Fire Department granted Olin Mesa Corporation facility closure with regards to all of the hazardous materials stored and used at the site.

The most recent grounding water sampling and analysis was performed on July 27, 2005. All groundwater samples were analyzed for VOCs using EPA Method 8260B. The laboratory results indicated the presence of TCE and cis-1, 2-DCE at respective concentrations of 46 ug/L and 9.0 ug/L. These results were from up gradient well sample MW-3. These values are above the current Environmental Screening Levels (ESLs) where groundwater is a potential source of drinking water (Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, RWQCBSF Bay region, Interim Final-February 2005, Table 1). These values were the highest detected in the water samples collected from the site. Since these test results represent the upgradient groundwater contaminant values, it is likely that the source of the VOC contamination is from an upgradient, offsite source."

The area around the subject site has numerous identified businesses that have had chemical or hazardous material releases. These sites are in various phases of investigation or remediation. None of the documents we reviewed identified the subject site as being an agency listed site. Even though the site has a history of hazardous materials usage, it appears that there has been no identified release of hazardous materials onto the site. The groundwater contamination detected in the onsite monitoring wells appears to be the result of the migration of VOCs from an upgradient, off-site source.

The source of the chlorinated solvent impacts has never been conclusively determined. The unresolved impacts, regardless of whether the source is on or off of the site, are a recognized environmental condition as defined in the ASTM standard practice.

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refer to that report for information and recommendations for asbestos and lead-based paint at the subject site.

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1.0 INTRODUCTION

On behalf of Calvano Development (hereinafter referred to as the "Client"), Applied Water Resources Corporation (AWR), performed a Phase I Environmental Site Assessment (ESA) of the property located at 1130 Terra Bella, Mountain View, Santa Clara County, California (hereinafter referred to as the "subject property").

1.1 Purpose

This ESA was performed to provide a record of the site conditions at the subject property and to evaluate what, if any, recognized environmental conditions exist at this site. Additional goals of this ESA are to identify recognized environmental conditions (RECs) from current and historical practices on the subject property and surrounding area and to assist the Client to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations from Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) liability.

1.2 Detailed Scope of Services

The following tasks were performed in accordance with the Scope of Services.

- Visual site inspection of the subject property to investigate for recognized environmental conditions. AWR is not responsible for inspecting areas covered by parked vehicles, overgrown vegetation, and other obstacles preventing access.

- A historical review of the use and improvements of the subject property through a review of aerial photographs, historical topographic maps, city directories, fire insurance maps, title reports, and/or building department records.

- A review of available geologic and hydrogeologic literature concerning the property and surrounding area.

- Interviews of persons familiar with the history of the subject property, including key site managers, owners, tenants, past tenants, and/or previous owners.

- Review of appropriate federal, state, and local regulatory agencies to reveal known hazardous wastes sites or significant leaks or spills of hazardous materials that may have occurred at the subject property and immediate vicinity.

- Interviews with applicable local agencies familiar with the areas in the vicinity of the subject property such as local fire departments, health departments, Regional Water Quality Control Board, and/or other local government agencies.

1.3 Significant Assumptions

No significant assumptions were made during this Phase I ESA.

1.4 Limitations and Exceptions of Agreement

AWR has performed the services for this project in accordance with our proposal, and within the current standards of the American Society for Testing and Materials (ASTM 1527-05) for Phase I Environmental Site Assessments and the standards for All Appropriate Inquiries (AAI) approved by the Federal Environmental Protection Agency. Except for the representations set forth in this Phase I ESA, no other representations, guarantees, or warrantees are either expressed or implied. A record search was limited to reasonably ascertainable information that could be obtained within 20 calendar days.

The review was limited to a search for RECs at the subject property. The term REC means the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimus* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

There is no investigation that is thorough enough to preclude the presence of hazardous materials that presently, or in the future, may be considered hazardous at the site. Because regulatory evaluation criteria are constantly changing, concentrations of contaminants presently considered low may, in the future, fall under more stringent regulatory standards that require remediation.

The Site Reconnaissance was limited to visual observation of surface conditions at the subject property. Interviews with public agency personnel were conducted. Reasonably ascertainable information was reviewed. This approach reflects current ASTM standards and AAI regulations.

Where there is a conflict between the environmental database and AWR's actual knowledge with regard to the distance and direction from the subject property of sites listed on the database, information obtained by AWR from the site reconnaissance was used. Whenever feasible, AWR notes such conflict within the text of the report.

This ESA addresses recognized environmental conditions at the subject property. However, certain conditions, such as those listed below may not be revealed:

1) naturally occurring toxic materials in subsurface soils, rocks, or water, or toxicity of onsite flora;
2) toxicity of substances common in current habitable environments, such as stored household products, building materials, and consumables;
3) biological pathogens;
4) contaminant plume below the depths sampled or from remote source;
5) contaminants or contaminant concentrations that do not violate present regulatory standards, but may violate future standards; and
6) unknown site contamination, such as illegal dumping and/or accidental spillage which may occur following the site visit by AWR.

Opinions and judgments expressed herein, which are based on our understanding and interpretation of current regulatory standards, should not be construed as legal opinions. This document and the information contained herein have been prepared solely for the Client and any reliance on this report by third parties not authorized by the Client shall be at such party's sole risk.

Conducting an AAI Phase I ESA alone does not provide a landowner with protection against CERCLA liability. Landowners who want to qualify as bona fide prospective purchasers or contiguous property owner must comply with all of the statutory requirements identified in CERCLA Section 107(r) and 107(q).

1.5 Special Terms and Conditions

No special terms or conditions were agreed upon for conducting this Phase I ESA.

1.6 User Reliance

As specified in ASTM E 1527-05, Sections 7.5.2 and 7.5.2.1, AWR is not required to independently verify the information provided by the User (Client), obtained from interviews, previous environmental reports, and/or reviewed documents during records review.

2.0 SITE DESCRIPTION

2.1 Site Location

The site address is 1130 Terra Bella, Mountain View, Santa Clara County, California. The site consists of one approximately 0.86 acre parcel. The site is located on the northern side of Terra Bella. The site is referenced as Santa Clara County Assessor's Parcel Number 153-15-026.

2.2 Site and Vicinity General Characteristics

The property is in a mixed commercial and light industrial area within the City of Mountain View, California.

2.3 Current and Proposed Use of the Property

The property is improved with a single story building used by DataNet IT as an IT consulting company.

It is our understanding Calvano Development is proposing to purchase the site. No information on proposed use of the property was provided to AWR.

2.4 Description of Structures, Road, and Other Improvements

The site is a single-story rectangular building on an approximately 0.86 acre rectangular parcel.

The remainder of the site is occupied by asphalt parking and driving areas, sidewalks to and around the building, and landscaping near the front of the building.

The site is a rectangular shaped parcel located on the northern side of Terra Bella and is accessed from Terra Bella.

The subject property is connected to the municipal water and sanitary and storm sewer systems.

2.5 Current Uses of the Adjoining Properties

The property is in a mixed use area. West of the site is a residence, east of the site is a office building converted to a school, and the remaining adjacent properties appear to be a mixture of light industrial and commercial uses.

3.0 USER PROVIDED INFORMATION

3.1 Title Records

An Environmental Liens Search was performed by EDR as a part of this Phase I ESA. The lien search, including the most recent grant deed, is included in Appendix J. No additional title information was provided by the user.

3.2 Environmental Liens or Activity and Use Limitations

The Environmental Professional is required to search for Activity and Use Limitations (AULs) if such records are available in *"publicly available lists or registries."* Typical AULs include land use restrictions (LURs), institutional controls (ICs), and Engineering Controls (ECs). Typical ICs include: 1) governmental controls such as zoning; 2) proprietary controls such as covenants or easements; 3) enforcement documents such as orders or consent decrees; and 4) information devices such as land record or deed notices. Typical ECs include: 1) passive measures such as vapor barriers and setbacks; 2) active measures such as remediation systems; and 3) monitoring of passive and/or active measures. According to 40 CFR Part 312.26 (b) (7), ICs are to be investigated on the subject property and according to 40 CFR Part 312.26 (b) (6) and (c) (2) (ii), ECs are to be reviewed to a 0.5 mile radius of the subject property. ASTM 1527-05 recommends that ECs be reviewed only for the subject property.

An Environmental Liens Search was performed for the subject property by EDR. The Environmental Liens Search did not report any environmental liens associated with the subject property.

The client provided AWR with a preliminary title report and within that report was a link to an agreement Establishing Chemical Use Restriction" dated November 7, 2005, executed by and between Terra Bella, Inc. and Archie J. Snider and Randi Snider recorded April 24, 2006, Instrument No. 18898959, of Official Records, which document, among other things, contains or provides for: Terms and conditions as contained therein. This document states:

> "Under the terms of the Purchase Agreement, Grantee and Grantor agreed, as a result of potential liabilities associated with historic environmental contamination of the groundwater in the area of the Property, to restrict the use of certain chemicals found in the groundwater in future operations on the Property in order to limit Grantee and Grantor's future potential liability for such contaminants. NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Grantee and Grantor agree as follows·
>
> **1. Restriction.** Grantee and all future owners and occupants of the Property shall not use, generate, store or otherwise have on the Property at any time any product, material, substance or waste containing any more than trace quantities of the following constituents: Tetrachloroethylene, Trichloroethylene, I, 1, I - Trichloroethane, Trans 1,2-Dichlorocthcne or any breakdown constituents of any of the foregoing, except in *de minimus* quantities as part of products used or

consumed in the ordinary course of Grantee's business operations Any and all future owners shall be required to notify any and all occupants of the Property of such restrictions in writing upon commencement of their occupancy. Any owner of the Property who after the date hereof violates the covenants and restrictions contained in this Paragraph I shall defend, indemnify and hold harmless all prior owners of the Property to the extent of any losses, costs, damages or liabilities (including, without limitation, any attorneys and consultants fees) suffered by such prior owner as a result of such breach.

2. **Covenants Running With the Land:** This instrument shall bind and inure to the benefit of Grantor and Grantee and each and all of their respective successors-in-interest, assigns, and transferees of the Property, and the terms and conditions of this instrument shall be "covenants running with the land." As used herein "Grantor" and "Grantee" shall include all such successors-interest, assigns, and transferees. Notwithstanding anything to the contrary contained in this Agreement, upon the date that the purchase money Promissory Note executed by Grantee and payable to Grantor (which promissory note is secured by a Deed Of Trust With Assignment Of Rents dated as of the date hereof encumbering the Property) is paid in full or otherwise satisfied, this Agreement shall be deemed void and of no further force and effect. Following payment of all amounts owed under the promissory note, upon the request of Grantee and/or their successors, Grantor shall execute and deliver a quitclaim deed in recordable form releasing any rights arising under this Agreement."

3.3 Specialized Knowledge

AWR staff while working for O'Brien & Gere Engineers had previously reviewed numerous reports for the subject site in 2007 for a different proposed property transfer. The letter report prepared by O'Brien & Gere is included with the previous reports in Appendix K.

In addition, as described in Section 3.2, the client provided AWR with a deed restriction limiting the use of certain chlorinated solvents at the site.

AWR was not informed of any other specialized knowledge associated with the subject property or the area in the vicinity of the subject property.

3.4 Commonly Known or Reasonably Ascertainable Information

AWR was did not discover any commonly known or reasonable ascertainable information associated with the subject property or the area in the vicinity of the subject property.

3.5 Valuation Reduction for Environmental Issues

AWR was not provided with purchase price information.

3.6 Owner, Property Manager, and Occupant Information

The property is currently owned SpRK LLC, who has owned the property since 2006.

The property is occupied by DataNet IT, and IT consulting company.

No property manager was identified to AWR.

3.7 Reason for Performing the Phase I ESA

AWR has performed this Phase I ESA in preparation of a proposed property transfer.

3.8 Previous Reports

AWR was provided with the text of a Phase I ESA prepared for the current site occupant in 2011 and a report summarizing groundwater well sampling from 2005. Copies of these reports are included in Appendix K.

The 2005 Toxichem report stated:

> "This letter has been prepared to complement and summarize the findings of the *Report for One Episode of Groundwater Monitoring* at the above referenced site, Sierra Environmental, Inc (Sierra), July 8, *2005].*
>
> The Sierra report presented a brief background of the site referencing *Preliminary*
> *Environmental Assessment and Groundwater Investigation* prepared by Aqua Terra Technologies, Inc. (ATT), September 7, 1988. The report indicated that the site was agricultural land during the 1950s, then utilized as a plaster contractors yard and private residence during the 1970's and finally developed in 1982 as Sharp·Industrial Park, a research and development facility and warehouse for Mesa Technology. The ATT report did indicate that the City of Mountain View Hazardous Materials Management Plan (HMMP) during site use: by Mesa Technology listed the storage of acids, caustic alkaline cleaner, cyanide, photo stripper, and flammable solvents. Additionally, industrial wastewa1er was treated on-site in a concrete sump, which according to Mesa Technology was for the neutralization of corrosives and acids under permit from the City of Mountain View.

In November, 1989 the concrete sump was removed and two soil samples were collet~. Based on the analytical results of .soil sampling, wipe sampling of hazardous materials storage, site walk-through and the proper manifest documentation for the removal of the concrete and soil; the City of Mountain View Fire Department, Hazardous Materials Division granted closure of the facility on December 20, 1989.

The ATT report also documented the installation and sampling of three groundwater monitoring wells at the site in August 1988. Groundwater was observed between 1.8 and 13 .4 feet below ground surface with a flow toward the northwest at a gradient of 0.012. Groundwater was initially analyzed for volatile organic compound& (VOCs by EPA Method 624) for semi-volatile organic compounds (SVOC; base/neutrals and acids by .EPA 625) and the Title 22 Priority Pollutant Metals. No SVOC compounds were reported above the method detection limits. Total metals were detected in the groundwater, however the A TI report suggested that the concentrations above the Maximum Contaminant Levels (MCL 's) for drinking water were likely due to the sorption of metals *to* soil particles suspended in the groundwater.

The Sierra report presented the groundwater analytic data provided in the original ATT report; however the VOC analytical results were subsequently re-issued by the laboratory (ETC-Multi-Tech) on September 8, 1988 due to issues of recalibration. Therefore, the amended groundwater analytical results for the VOC analyses are summarized below.

Trichloroethene (TCE) was detected in all three wells at the site during the August 31, 1988 sampling event; MW-I (1611&'L). MW-2 (300 µg/.L) and upgradient Well MW-3 (40 µg/L). Trans-1,2-Dicbloroethene (trans-l,2·DCE) was detected in Well MW-2 at 19 µg/L and upgradient Well MW-3 at *6* µg/L.

On June 27, 2005 Sierra performed a subsequent groundwater monitoring event on the three wells at the site. Groundwater was gauged at between 7.69 and 9.31 feet below the top of casing elevations and flowed to the northwest at a shallow gradient of approximately 0.004. TCE was detected in all three wells at similar concentrations ranging from 33 to *46* µg/L. Additionally, cis-1,2-DCE (a chlorinated transformation product of TCE) was detected in all the wells at concentrations ranging tram 5.2 to *9.0* µg/L. Trans-1,,2-DCE was only detected in upgradient Well MW-3 at 0.64 µg/L. No total petroleum hydrocarbons as gasoline or as diesel were detected in the three wells sampled. Methyl tertiary butyl ether was only detected in Well MW-1 at a concentration of 1.2 µg/L.

The most recent groundwater monitoring data indicates that TCE (in all wells) and cis-1,2-DCE (in Wells MW-1 and MW-3) arc above the respective Environmental Screening Levels (ESLs) where groundwater is a current or potential source of drinking water. The site is located proximal and lateral to or downgradient to many known sources of solvents released to groundwater

The upgradient well (Well MW-3) during the June 27, 200S monitor event contained the highest site concentrations for TCE (46 µg/L), cis-1.2-DCE (9.0 ug/L) and the only detected concentration of trans-1,2-DCE (0.64 ug/L). Therefore, even though limited drum storage of solvents was documented historically suggest the possibility for a source to exist at the site, it is likely that the current concentrations of TCE, cis-1,2-DCE and trans-1,2-DCE reported in the groundwater wells are predominantly from an upgradient, off-site source."

The 2011 Phase I concluded:

"Several documents were reviewed by ODIC pertaining to the previous occupants of the subject property (Olin Mesa Corporation and Mesa Technology). According to the documents, the facility operated under a hazardous materials management plan under the oversight of the Mountain View Fire Department. A wastewater treatment system and sump were located on the northern end of the property (outside of the building) and operated under continuous monitoring and secondary containment. Water and caustic were transferred from the onsite machinery to the outdoor sump. The sump carried the solution via aboveground piping to the aboveground treatment tank, which was also located outside of the building. Treated water was discharged to sewer under an industrial wastewater permit. The tanks reportedly all had secondary spill containment and interstitial sensors which were inspected daily.

The tanks and sump were removed from the property in October 1989 under the oversight of the Mountain View Fire Department. Soil and groundwater beneath the sump area was sampled and analyzed for copper. Analytical results indicated concentrations of copper in soil at 340 mg/kg. A groundwater investigation conducted at the site in September 1988 detected a number of groundwater contaminants including unspecified metals, TCE, DCE, and MtBE. However, the Mountain View Fire Department concluded that since DCE was never used by the site occupant, only research quantities of TCE were used at the site, and both chemicals were detected in an upgradient well, these chemicals were from an off-site source. Mountain View Fire Department concluded that after remediation (removal of sump, tanks, and associated concrete and soil) the site did not pose an environmental risk or health risk. Soil and concrete associated

with the sump area were removed offsite under waste manifest and disposed at the Waste Management landfill in Kettleman City, CA on November 14, 1989.

There is no information regarding the depth of the soil sample or the sampling procedure for either soil or groundwater in the documents reviewed by ODIC. The concentration of copper in soil (340 mg/kg) is above the current environmental screening level (SF RWQCB ESLs) in shallow soils of 230 mg/kg. No delineation of the lateral or vertical extent of copper contamination was performed according to the documents reviewed by ODIC so it is unclear whether or not the surrounding soil has been affected.

The presence of copper contamination in the subsurface soil, the presence of TCE, metals, DCE, and MtBE in groundwater, and data gaps associated with the former sump removal (unknown depth of sample, unknown analyses performed, unknown location of sample, no delineation of the lateral or vertical extent of contamination, unknown soil/groundwater sampling procedure) represent Recognized Environmental Conditions (RECs).

As discussed in section 3.3, current AWR staff working for O'Brien & Gere Engineers had previously reviewed reports for this site for a previous proposed property transfer. The O'Brien & Gere summary letter is included in Appendix K. The letter concluded:

O'Brien & Gere is presenting herein the results of our environmental data review of the documents you presented to us. The following is a list of the documents we reviewed:

- TOXICHEM Management Systems, Inc., Groundwater Monitoring Report 1130 Terra Bella Avenue, Mt. View, CA; dated September 19, 2005, Project TS-01.lA
- Sierra Environmental, Inc., REPORT FOR ONE EPISODE OF GROUNDWATER MONITORING, 1130 Terra Bella avenue, Mt. View, CA; July 8, 2005, Project 05-173.01
- City of Mt. View Hazardous Materials Division letter; dated December 20,1989, Re: 1130 terra Bella avenue, Mt. View
- Grubb & Ellis letter dated July 21, 1988, Re: 1130 Terra Bella Avenue, Mt. View
- Aqua Terra Technologies Consulting Engineers, Preliminary Environmental Assessment and Groundwater Investigation (No attachments) for 1130 Terra Bella Avenue, Mt. View, CA, September 7, 2005
- Olin Mesa Corporation, October 14, 1988, Re: 1130 Terra Bella Avenue, Mt. View, CA

- Aqua Terra Technologies Consulting Engineers, December 30, 1988, Re: Disposal of contaminated Groundwater 1130 Terra Bella Avenue, Mt. View, CA
- Aqua Terra Technologies Consulting Engineers, September 19, 1988, Re: Laboratory Data and Well Permits, 1130 Terra Bella avenue, Mt. view, CA
- Levine-Fricke, Computer Modeling of Recommended Alternative for the North Bayshore Area, July 29, 1987, file No. L-F 1709
- California RWQCB, Cleanup and Abatement order No. 86-011, Teledyne Semiconductor, Mt. View, CA
- SANTA CLARA COUNTY PRIVATE WELL SAMPLING PROGRAM, FINAL REPORT, Santa Clara County Health Department, January 1986.

The aforementioned documents address groundwater sampling that has occurred at the subject site and surrounding properties that have been identified as having environmental impairments. Three monitoring wells were installed at the site in August 1988 to evaluate the potential for the site to have been a contributor to the regional groundwater in the area. Documents indicate that volatile organic compounds have been stored at the site in the past. In 1989 the Mt. View Fire Department granted Olin Mesa Corporation facility closure with regards to all of the hazardous materials stored and used at the site.

The most recent grounding water sampling and analysis was performed on July 27, 2005. All groundwater samples were analyzed for VOCs using EPA Method 8260B. The laboratory results indicated the presence of TCE and cis-1, 2-DCE at respective concentrations of 46 ug/L and 9.0 ug/L. These results were from up gradient well sample MW-3. These values are above the current Environmental Screening Levels (ESLs) where groundwater is a potential source of drinking water (Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, RWQCBSF Bay Region, Interim Final-February 2005, Table 1). These values were the highest detected in the water samples collected from the site. Since these test results represent the upgradient groundwater contaminant values, it is likely that the source of the VOC contamination is from an upgradient, offsite source."

The area around the subject site has numerous identified businesses that have had chemical or hazardous material releases. These sites are in various phases of investigation or remediation. None of the documents we reviewed identified the subject site as being an agency listed site. Even though the site has a history of hazardous materials usage, it appears that there has been no identified release of hazardous materials onto the site. The groundwater contamination detected in the onsite monitoring wells appears to be the result of the migration of VOCs from an upgradient, off-site source.

4.0 RECORDS REVIEW

The government environmental agency databases AWR reviewed are listed on pages 4 through 7 of the Map Findings Summary of the database obtained from Environmental Data Resources, Inc. (EDR), included as Appendix C. Please refer to the EDR report in Appendix C for additional information on the searched databases including the full names of the databases, the regulatory agency overseeing the databases, a summary of the types of facilities listed on each database, and the dates the information was obtained from the regulatory agencies. Where locations and distances reported by EDR were observed to be incorrect, AWR amended the information to provide a more accurate assessment.

AWR also requested information from the San Francisco Bay Regional Water Quality Control Board, the Santa Clara County Environmental Health Department, the Santa Clara Valley Water District, the Mountain View Fire Department, and the California Department of Toxic Substance Control Envirostor database. Information from these sources for the subject site is included in Section 4.1.1. Information on nearby releases is included in Section 4.1.2.

4.1 Standard Environmental Record Sources

4.1.1 Subject Property

The site address was listed on the CA EMI database as Olin Mesa Corporation and the RCRA-SQG and FINDS databases. These databases are for facilities operating with appropriate environmental permits and are not indicative of a release or material mishandling. .

AWR also requested information from the San Francisco Bay Regional Water Quality Control Board, the Santa Clara County Environmental Health Department, the Santa Clara Valley Water District, the Mountain View Fire Department, and the California Department of Toxic Substance Control Envirostor database.

Mountain View Fire Department

AWR reviewed files for the site at the Mountain View Fire Department. The Mountain View Fire Department is the Certified Unified Program Agency (CUPA) for properties in Mountain View. As a CUPA, the Mountain View Fire Department is responsible for implementing the following programs: Above Ground Storage Tanks, California Accidental Release Prevention Program (CalARP), Hazardous Materials Management Plans/Business Plans, Hazardous Waste Generator, On Site Treatment of Hazardous Wastes, and Underground Storage Tanks.

The Mountain View Fire Department records of hazardous material use by Olin Mesa Corporation as well as information on a former neutralization sump (treated as a tank) and the soil and groundwater sampling reports described elsewhere within this report. Other than Olin

Mesa/Mesa Technologies, none of the current or other former site occupants appeared to have used regulated amounts of hazardous materials and none of the other occupants appear to have operated any tanks at the subject site.

Santa Clara County Environmental Health Department

AWR reviewed files at the Santa Clara County Environmental Health Department Leaking Underground Storage Tank Oversight Program (LUSTOP). There were no release files for the subject site address. Files reviewed for nearby releases potentially impacting the site are discussed in Section 4.1.2.

California Department of Toxic Substance Control

AWR reviewed files at the California Department of Toxic Substance Control Envirostor database. There were no release files for the subject site address. Files reviewed for nearby releases potentially impacting the site are discussed in Section 4.1.2.

Regional Water Quality Control Board

AWR reviewed files at the Regional Water Quality Control Board Geotracker database. There were no release files for the subject site address. Files reviewed for nearby releases potentially impacting the site are discussed in Section 4.1.2.

US EPA Region 9

AWR reviewed files available online for the US Environmental Protection Agency (EPA) Region 9 Superfund sites. There were no release files for the subject site address. Files reviewed for nearby releases potentially impacting the site are discussed in Section 4.1.2.

4.1.2 Offsite Listings

Based upon a review of groundwater monitoring data collected at nearby release investigations, groundwater beneath the subject property was calculated to flow toward the north and was encountered at depths ranging from 4 to 16 feet below ground surface (bgs). Based on this inferred groundwater flow direction, offsite listings that are adjacent to or south of the subject site have the greatest potential to impact the subject site. The sites of note are discussed below:

- There are six federal national priority list (NPL) sites, also known as Superfund sites, within one mile of the site including two which are within ¼-mile of the site. The NPL listings are Moffett Naval Air Station, Intel Corp (Mountain View Plant) Teledyne Semiconductor, Spectra-Physics, Inc., Jasco Chemical Corp., and CTS Printex, Inc. The NPL listings are primarily for releases of solvents and several of the plumes are mingled. In addition, there are several state-overseen releases that have contributed to the regional impacts. AWR reviewed information in the EDR report as well as additional information obtained from EPA Region 9, California DTSC, and the RWQCB. Based on

our review of the information, the site is near but does not appear to be impacted by several known solvent releases impacting groundwater over a large area. It appears that the intermingled plumes are primarily west of Shoreline Boulevard. The sources and responsible parties for the regional plumes are known and the investigation and remediation is ongoing. The subject site was never named as a possible source of the impacts and does not appear to have been significantly impacted by the regional solvent plumes.

- Shippen Property at 1175 Terra Bella was identified on the CA HIST CORTESE, CA LUST and CA HIST LUST databases. These are databases that list facilities that have had releases from underground storage tanks. AWR obtained additional information on this release from the Santa Clara County Environmental Health Department LUSTOP program. Monitoring wells were installed on the property adjacent to the site to the east and on the source property southwest of the subject site. No sampling appears to have been done on the subject site but based on the sampling results on the adjacent properties, it is possible the groundwater of soil gas at the site were impacted by this release. The subject site was never named as a possible source of the impacts and the source release has been closed since 2001. This is classified as a Historical Recognized Environmental Condition (HREC) since the impacts have been mitigated, and the release investigation has been closed indicating it has been resolved to the satisfaction of the overseeing regulatory agency.

- Texaco (CVX #21-1179) at 975 Shoreline Blvd (formerly known as Sterlin Road) was identified on the CA LUST and CA HIST LUST databases. These are databases that list facilities that have had releases from underground storage tanks. AWR obtained additional information on this release from the Santa Clara County Environmental Health Department LUSTOP program. Monitoring wells were installed on the property adjacent to the site to the northwest and the southwest in 1990 for the investigation associated with a release of gasoline from former underground storage tanks at the former Texaco Station at 975 Shoreline Blvd (at the southeast corner of the intersection of North Shoreline Boulevard and Terra Bella Avenue). Sampling conducted from 1990 through 1992 revealed significant gasoline impacts in the groundwater samples from the wells near the subject site. When the remediation activities began at the subject site, the concentrations decreased. Between 1992 and 1994, the concentrations in the samples collected from the well at the site dropped significantly and stabilized at lower concentrations. No sampling appears to have been done on the subject site but based on the sampling results on the adjacent properties; it is possible the groundwater of soil gas at the site were impacted by this release. The subject site was never named as a possible source of the impacts and the source release has been closed. This is classified as a Historical Recognized Environmental Condition (HREC) since the impacts have been mitigated, the subject site no longer appears to be impacted, and the release investigation has been closed indicating it has been resolved to the satisfaction of the overseeing regulatory agency.

- Robb-Jack Corp. at 1080 Linda Vista was identified on the CA LUST and CORTESE databases. These are databases that list facilities that have had releases from underground storage tanks. AWR obtained additional information on this release from the Santa Clara County Environmental Health Department LUSTOP program. Based on our review of the information, groundwater impacts appear to have been minimal and it does not appear that this release impacted the subject site. The release was closed in 1996 indicating no additional investigation or remediation is required.

Based on the distance, direction, and/or nature of the remaining listings, in our opinion, none of the other listings are likely to impact the subject site.

4.1.3 Other Sites of Potential Environmental Concern

AWR did not identify any other sites of environmental concern. AWR reviewed the sites in the EDR Database that were unable to be mapped. None of the listings appeared to correspond to the site or adjacent properties. None of the listings appear likely to have the potential to impact the site.

4.2 Additional Environmental Record Sources

AWR reviewed information on this site from the Mountain View Fire Department, the California Department of Toxic Substance Control (DTSC) Envirostor database, the Santa Clara County Environmental Health Department LUSTOP program, the California Geotracker Database, and US EPA. Information from these sources for the subject site was discussed in Section 4.1.1. Information from these sources on the nearby properties was included in Section 4.1.2.

4.3 Physical Setting Sources(s)

The EDR Report in Appendix C indicates that the underlying hard rock geology consists of Cenozoic Quaternary stratified sequence. Surface soils in the vicinity of the site are classified by the United States Department of Agriculture (USDA) Soil Conservation Service (SCS) as Botella clay loam.

Based upon a review of groundwater monitoring data collected at the site and nearby release investigations, groundwater beneath the subject property was calculated to flow toward the north to northwest and was encountered at depths ranging from 4 to 16 feet below ground surface (bgs).

Current site-specific information on groundwater flow direction, depth, and quality can only be confirmed through the installation and survey of a minimum of three on-site groundwater-monitoring wells, which was beyond the scope of this assessment.

According to the 1999 USGS Mountain View, California Quadrangle Map, the site elevation is approximately 36 feet above mean sea level with a slight regional topographic slope downward to the north.

4.4 Historical Use Information on the Property

AWR reconstructed a brief history of the subject property through a review of historical Topographic Maps; the EDR City Abstract; available records, permits and other documents available at Santa Clara County; and historical aerial photographs provided by EDR. A summary of historical sources can be found in Section 12.0 of this Report with pertinent documents available in Appendices.

According to historical sources, the subject property appears to have been used as agricultural fields in 1939 and Pennell Plastering and a residence from at least 1948 until the late 1970s. The current building was reportedly constructed in 1983 and the remainder of the property was improved similar to its current configuration. .

The site was operated as Olin Mesa which later became Mesa Technology until 1989. The site appears to have been used by various occupants including Products. The site has been occupied by DataNet, the current occupant, since 2005.

The building appears to have been used primarily as offices since its initial construction.

4.5 Historical Use Information on Adjoining Properties

The surrounding properties were primarily agricultural fields until being developed with light industrial development in the 1960s and early 1970s.

5.0 SITE RECONNAISSANCE

The goal of the site reconnaissance is to obtain information indicating the likelihood of identifying RECs in connection with the subject property. The subject property is visually observed and any structures located on the property are observed to the extent not obstructed by bodies of water, adjacent buildings, and/or other obstructions.

5.1 Methodology and Limiting Conditions

The exterior site reconnaissance was performed by walking open areas of the property in a grid fashion. Special attention was given to observe surfaces adjacent to the structures and sidewalks, surfaces in storage areas, and potential conduits to the subsurface such as drains and sumps. The interior site reconnaissance was performed by systematically observing each room and open space

of the property. Additional attention was given to doors, utility rooms, storage areas, areas where hazardous materials were used or stored, and any other accessible areas.

5.2 General Site Setting

On December 13, 2013, Ms. Janelle Amendola of AWR conducted a site reconnaissance at the subject property. Ms. Amendola was unaccompanied during the site visit.

5.3 Exterior Observations

The majority of the site is occupied by the building and asphalt parking and drive areas west of the building with landscaping near the front of the building and rear of the site. The eastern side of the building is the eastern property boundary

No staining, stressed vegetation, or unusual odors were observed at the site.

5.4 Interior Observations

The site building is primarily an office building with research and development (R&D) space in the northern portion of the building (used for computer assembly).

Currently, the building is occupied by DataNet, Inc., a computer IT Service Company that supplies custom computer networking services, software, and hardware customization. DataNet, Inc. does not use or generate any hazardous materials/wastes at the subject property.

No staining, stressed vegetation, or unusual odors were observed at the site.

5.4 Non-Scope Items

The following non-scope items were included as part of this Report based on readily available information that was reviewed.

5.4.1 Suspect Asbestos Containing Building Materials and Lead-Based Paint

Based on the age of the buildings, there is a potential that asbestos containing materials and/or lead based paint have been used at the site. A full survey has been completed by AWR and will be forwarded under separate cover.

5.4.2 Radon

No radon survey was conducted. According to the EDR report, Santa Clara County is in zone 2, indicating the average indoor level is between 2 and 4 picocuries per liter (pCi/L). The US Environmental Protection Agency (USEPA) action level is 4 pCi/L.

6.0 INTERVIEWS

6.1 Interview with Owner Representative

No site owner representative was identified.

6.2 Interview with Site Manager

No Site Manager was identified.

6.3 Interviews with Occupants

AWR conducted informal interviews with the site occupants during the site reconnaissance. Given that the current occupants only use the building for offices, formal interviews were not conducted.

6.4 Interviews with Local Government Officials

AWR reviewed information from the Mountain View Fire Department, the Santa Clara County Environmental Health Department, the San Francisco Bay Regional Quality Control Board, and the California Department of Toxic Substance Control. Information from these requests is presented elsewhere throughout this report.

6.5 Interviews with Others

AWR did not perform any interviews with others regarding the subject property.

7.0 FINDINGS

Three monitoring wells were installed at the site in August 1988 to evaluate the potential for the site to have been a contributor to the regional groundwater in the area. Documents indicate that volatile organic compounds have been stored at the site in the past. In 1989 the

Mt. View Fire Department granted Olin Mesa Corporation facility closure with regards to all of the hazardous materials stored and used at the site.

The most recent grounding water sampling and analysis was performed on July 27, 2005. All groundwater samples were analyzed for VOCs using EPA Method 8260B. The laboratory results indicated the presence of TCE and cis-1, 2-DCE at respective concentrations of 46 ug/L and 9.0 ug/L. These results were from up gradient well sample MW-3. These values are above the current Environmental Screening Levels (ESLs) where groundwater is a potential source of drinking water (Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, RWQCBSF Bay region, Interim Final-February 2005, Table 1). These values were the highest detected in the water samples collected from the site. Since these test results represent the upgradient groundwater contaminant values, it is likely that the source of the VOC contamination is from an upgradient, offsite source."

The area around the subject site has numerous identified businesses that have had chemical or hazardous material releases. These sites are in various phases of investigation or remediation. None of the documents we reviewed identified the subject site as being an agency listed site. Even though the site has a history of hazardous materials usage, it appears that there has been no identified release of hazardous materials onto the site. The groundwater contamination detected in the onsite monitoring wells appears to be the result of the migration of VOCs from an upgradient, off-site source.

The source of the chlorinated solvent impacts has never been conclusively determined, The unresolved impacts, regardless of whether the source is on or off of the site, are a recognized environmental condition as defined in the ASTM standard practice.

A deed restriction prohibiting the use of chlorinated solvents at the site was recorded in 2005.

Based on the age of the building, there is a potential asbestos-containing materials and/or lead based paint are present in the building. Although this is not a recognized environmental condition (REC) as defined by the ASTM Standard Practice, any renovation or demolition must comply with applicable regulations regarding asbestos-containing materials and lead based paint including appropriate testing and if required, mitigation. AWR is conducting an asbestos and lead based paint survey at the subject site and the results will be submitted under separate cover. Please refer to that report for information and recommendations for asbestos and lead-based paint at the subject site.

7.1 Data Gaps

AWR was not able to review a Chain of Title Report for the subject property. It is AWR's opinion that the lack of this information does not pose a significant data gap, as an environmental lien search was performed for the subject property and revealed no issues.

AWR was also not able to interview past occupants or current or past owners. Given the well documented use of the site from other sources, in our opinion, this is not a significant data gap.

7.2 Continuing Obligations

Continuing obligations start on the date that a landowner acquires title to a property. The landowner must: 1) comply with land use restrictions and institutional controls; 2) take "reasonable" steps with respect to hazardous substances releases; 3) provide full cooperation, assistance and access to persons that are authorized to conduct response actions or natural resource restoration; 4) comply with information requests and administrative subpoenas; and 5) provide all legally required notices. Continuing obligations must be satisfied to maintain liability protection under CERCLA for innocent landowners, bona fide prospective purchasers, and contiguous property owners.

AWR identified no ongoing continuing obligations for the subject site.

8.0 OPINION

The source of the chlorinated solvent impacts has never been conclusively determined. The unresolved impacts, regardless of whether the source is on or off of the site, are a recognized environmental condition as defined in the ASTM standard practice.

Based on the age of the building, there is a potential asbestos-containing materials and/or lead based paint are present in the building. Although this is not a recognized environmental condition (REC) as defined by the ASTM Standard Practice, any renovation or demolition must comply with applicable regulations regarding asbestos-containing materials and lead based paint including appropriate testing and if required, mitigation. AWR is conducting an asbestos and lead based paint survey at the subject site and the results will be submitted under separate cover. Please refer to that report for information and recommendations for asbestos and lead-based paint at the subject site.

The potential for asbestos and/or lead based paint in the building materials at the site is not a REC but must be managed appropriately.

No other potential RECs were identified in conjunction with the site.

9.0 CONCLUSIONS

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-05 of 1130 Terra Bella, Mountain View, Santa Clara County, California, the subject property. Any exceptions to, or deletions from, this practice are described in Section 5.1 of this Report.

This assessment has revealed no evidence of Recognized Environmental Conditions in connection with the subject property, except the following:

Three monitoring wells were installed at the site in August 1988 to evaluate the potential for the site to have been a contributor to the regional groundwater in the area. Documents indicate that volatile organic compounds have been stored at the site in the past. In 1989 the Mt. View Fire Department granted Olin Mesa Corporation facility closure with regards to all of the hazardous materials stored and used at the site.

The most recent grounding water sampling and analysis was performed on July 27, 2005. All groundwater samples were analyzed for VOCs using EPA Method 8260B. The laboratory results indicated the presence of TCE and cis-1, 2-DCE at respective concentrations of 46 ug/L and 9.0 ug/L. These results were from up gradient well sample MW-3. These values are above the current Environmental Screening Levels (ESLs) where groundwater is a potential source of drinking water (Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, RWQCBSF Bay region, Interim Final-February 2005, Table 1). These values were the highest detected in the water samples collected from the site. Since these test results represent the upgradient groundwater contaminant values, it is likely that the source of the VOC contamination is from an upgradient, offsite source."

The area around the subject site has numerous identified businesses that have had chemical or hazardous material releases. These sites are in various phases of investigation or remediation. None of the documents we reviewed identified the subject site as being an agency listed site. Even though the site has a history of hazardous materials usage, it appears that there has been no identified release of hazardous materials onto the site. The groundwater contamination detected in the onsite monitoring wells appears to be the result of the migration of VOCs from an upgradient, off-site source.

The source of the chlorinated solvent impacts has never been conclusively determined. The unresolved impacts, regardless of whether the source is on or off of the site, are a recognized environmental condition as defined in the ASTM standard practice.

A deed restriction prohibiting the use of chlorinated solvents at the site was recorded in 2005.

Based on the age of the building, there is a potential asbestos-containing materials and/or lead based paint are present in the building. Although this is not a recognized environmental condition (REC) as defined by the ASTM Standard Practice, any renovation or demolition must comply with applicable regulations regarding asbestos-containing materials and lead based paint including appropriate testing and if required, mitigation. AWR is conducting an asbestos and lead based paint survey at the subject site and the results will be submitted under separate cover. Please refer to that report for information and recommendations for asbestos and lead-based paint at the subject site.

10.0 DEVIATIONS

AWR did not evaluate the purchase price versus property value as AWR is not qualified to evaluate this issue.

11.0 ADDITIONAL SERVICES

AWR has also completed asbestos and lead sampling at the subject site. The results of that were presented under separate cover. No other additional services were performed in conjunction with this Phase I ESA.

12.0 REFERENCES

EDR City Abstract:– 1957-2012.

Historic Sanborn® Fire Insurance Maps: No coverage.

Aerial Photographs: 1939, 1948 1956, 1968, 1974, 1982, 1991, 1999, 2005, 2006, 2009, 2010, and 2012.

The following governmental agencies were contacted to obtain the information in this report:

Jurisdiction	Agency
Federal	U.S. Environmental Protection Agency, Region IX, San Francisco
State and Regional	State of California Environmental Protection Agency, Department of Toxic Substances Control, Berkeley San Francisco Bay Regional Water Quality Control Board
County and Local	Santa Clara County Environmental Health Dept. Mountain View Building Department

Websites:
http://www.envirostor.dtsc.ca.gov/public/
http://www.geotracker.swrcb.ca.gov/
http://www.dhs.ca.gov/radon/default.htm

13.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

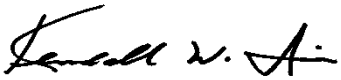
We declare that to the best of our professional knowledge and belief, we meet the definition of an Environmental Professional as defined in §312.21 of 40 CFR Part 312 and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Prepared by:



Janelle Amendola, REA
Environmental Assessor

Reviewed by:



Kendall W. Price, CEG, REA
Regional Manager/Principal Consultant

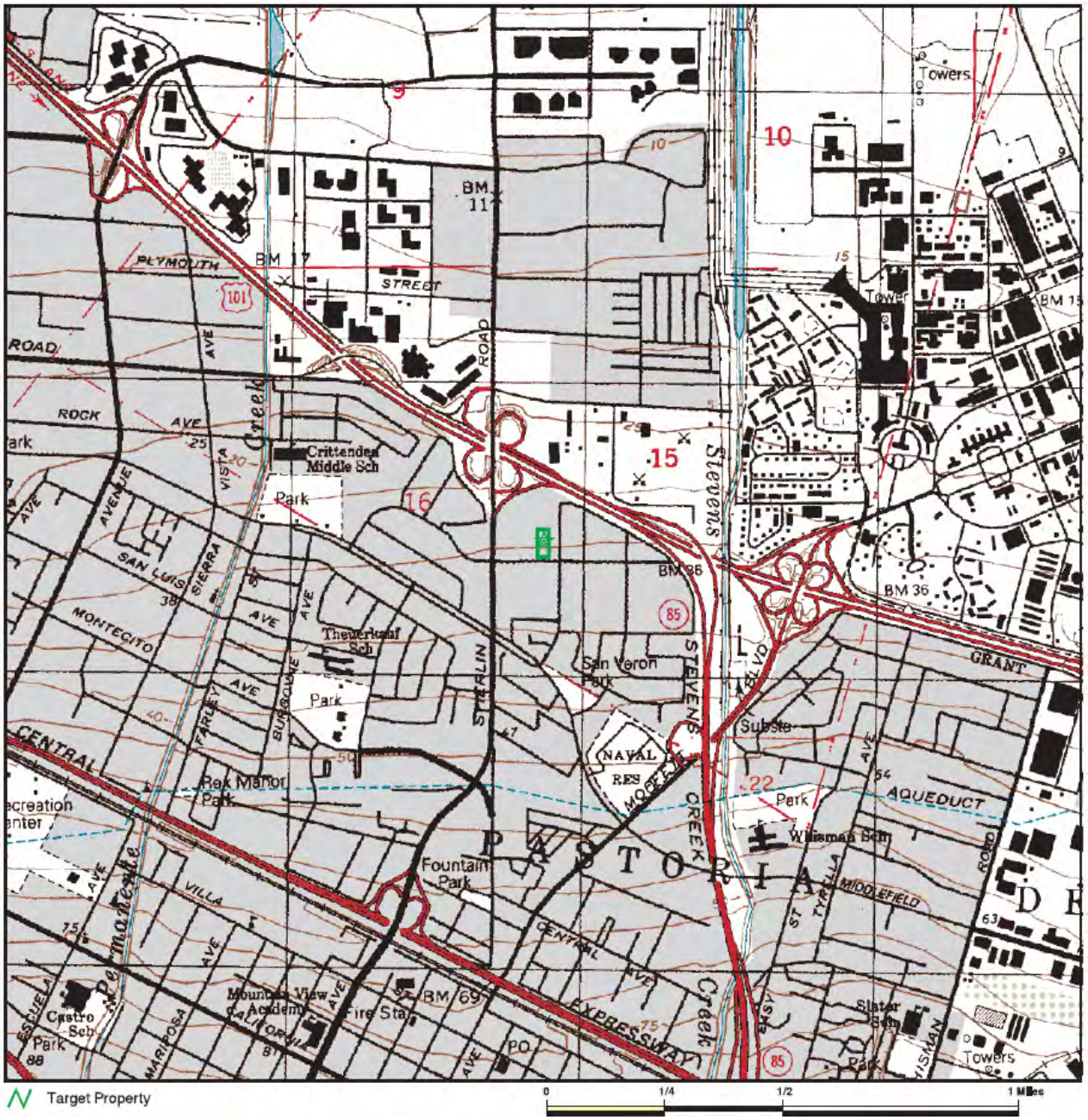
14.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Pursuant to 40 CFR 10 and according to 40 CFR Part 312, the Environmental Professionals listed in Section 13.0 possess sufficient education, training, and experience necessary to exercise the professional judgment to develop the opinions and conclusions regarding conditions indicative of releases or threatened releases on, at, in or to a property, sufficient to meet the objectives and performance factors in §312.20(e) and (f). See Appendix D for resumes on the following individuals:

Ms. Janelle Amendola

Mr. Kendall Price

APPENDIX A
Site Location Map



NOTE: Base map prepared by USGS and provided to AWR by EDR

FIGURE 1 – Site Location

1130 Terra Bella
Mountain View, California

APPLIED WATER RESOURCES

APPENDIX B
Site Photographs



Photo 1: View of building exterior



Photo 2: View of building exterior

APPLIED WATER RESOURCES

Chicago Title Company
C/I-127359-sel

DOCUMENT: 18898959

Pages: 5

Fees . 19.00
Taxes ..
Copies.
AMT PAID 19.00

RECORDED REQUESTED BY
AND WHEN RECORDED RETURN TO:

Wilson Sonsini Goodrich and Rosati
650 Page Mill Road
Palo Alto, CA 94304

Attention: Real Estate Department/MG1

BRENDA DAVIS
SANTA CLARA COUNTY RECORDER
Recorded at the request of
Chicago Title

RDE # 010
4/24/2006
8:00 AM

152-45-072.01

AGREEMENT ESTABLISHING CHEMICAL USE RESTRICTION

THIS AGREEMENT ESTABLISHING CHEMICAL USE RESTRICTION ("**Agreement**") is dated as of November 7th 2005, and is made by and between Terra Bella, Inc., a California corporation, whose address is 19776 Oakhaven Drive, Saratoga, CA 95070, and Archie J. Snider and Randi Snider, husband and wife, whose address is 3565 Victor Street, Suite F, Santa Clara, CA 95124 (jointly and severally and collectively, "Grantor"), and * , (joint and severally and collectively, "Grantee"). *Data Answers, Inc., a California corporation, whose address is 1130 Terra Bella, Mountain View, CA 94043

RECITALS

A. Grantee and Grantor entered into that certain Agreement for Purchase and Sale of Real Property dated as of **September 2005 (the "**Purchase Agreement**") for property located at 1130 Terra Bella Avenue, Mountain View, California.*** **September 30th, ***shown as Exhibit "A" attached hereto and made a part hereof.

B. Under the terms of the Purchase Agreement, Grantee and Grantor agreed, as a result of potential liabilities associated with historic environmental contamination of the groundwater in the area of the Property, to restrict the use of certain chemicals found in the groundwater in future operations on the Property in order to limit Grantee and Grantor's future potential liability for such contaminants.

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Grantee and Grantor agree as follows:

AGREEMENTS

1. **Restriction.** Grantee and all future owners and occupants of the Property shall not use, generate, store or otherwise have on the Property at any time any product, material, substance or waste containing any more than trace quantities of the following constituents: Tetrachloroethylene, Trichloroethylene, 1,1,1 –Trichloroethane, Trans 1,2-Dichloroethene or any breakdown constituents of any of the foregoing, except in *de minimis* quantities as part of products used or consumed in the ordinary course of Grantee's business operations Any and all future owners shall be required to notify any and all occupants of the Property of such restrictions in writing upon commencement of

their occupancy. Any owner of the Property who after the date hereof violates the covenants and restrictions contained in this Paragraph 1 shall defend, indemnify and hold harmless all prior owners of the Property to the extent of any losses, costs, damages or liabilities (including, without limitation, any attorneys and consultants fees) suffered by such prior owner as a result of such breach.

2. **Covenants Running With the Land**: This instrument shall bind and inure to the benefit of Grantor and Grantee and each and all of their respective successors-in-interest, assigns, and transferees of the Property, and the terms and conditions of this instrument shall be "covenants running with the land." As used herein "Grantor" and "Grantee" shall include all such successors-in-interest, assigns, and transferees. Notwithstanding anything to the contrary contained in this Agreement, upon the date that the purchase money Promissory Note executed by Grantee and payable to Grantor (which promissory note is secured by a Deed Of Trust With Assignment Of Rents dated as of the date hereof encumbering the Property) is paid in full or otherwise satisfied, this Agreement shall be deemed void and of no further force and effect. Following payment of all amounts owed under the promissory note, upon the request of Grantee and/or their successors, Grantor shall execute and deliver a quitclaim deed in recordable form releasing any rights arising under this Agreement.

3. **Execution in Counterparts**: This Agreement may be executed in one or more counterparts, each of which, when so executed, shall be deemed an original. Such counterparts shall together constitute one and the same instrument.

4. **Entire Agreement**. This Agreement shall constitute the entire agreement between the parties with regard to the subject matter of this Agreement, and shall supersede all other agreements respecting the subject matter of this Agreement.

[No Further Text On This Page]

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the dates set forth below.

GRANTOR:

Terra Bella, Inc.,
A California corporation

By: _____
Juliette K. Ly, President

Date: 4/21/06

_____
Archie J. Snider

_____
Randi Snider

Date: 4/21/06

GRANTEE:

Data Answers, Inc.
A California corporation

By: _____
Stephen Muir, President

Date: 4/21/06

CERTIFICATE OF ACKNOWLEDGEMENT OF NOTARY PUBLIC

STATE OF California)
)
COUNTY OF Santa Clara)

On April 21 2004 before me, Sharon E. La Fountain, Notary Public, Notary Public, personally appeared Juliette K. Ly and Andrew Smith and Robin Snider personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s), acted, executed the instrument.

WHEREAS my hand and official seal.

(Signature of Notary Public)

SHARON E. LA FOUNTAIN
Commission # 1403418
Notary Public - California
Santa Clara County
My Comm. Expires Mar 31, 2007

CERTIFICATE OF ACKNOWLEDGEMENT OF NOTARY PUBLIC

STATE OF California)
)
COUNTY OF Santa Clara)

On April 21 2004 before me, Sharon E. La Fountain, Notary Public, personally appeared Stephen Muir personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s), acted, executed the instrument.

WHEREAS my hand and official seal.

(Signature of Notary Public)

SHARON E. LA FOUNTAIN
Commission # 1403418
Notary Public - California
Santa Clara County
My Comm. Expires Mar 31, 2007

Exhibit "A"

All that certain Real Property in the City of Mountain View, County of Santa Clara, State of California, described as follows:

ALL OF LOT TWENTY (20), as shown upon that certain Map entitled, "TERRA BELLA ACRES" which Map was filed for record in the Office of the Recorder of the County of Santa Clara, State of California, on May 8, 1928 in Book W of Maps, at Page 56.

EXCEPTING THEREFROM that certain Parcel of land conveyed by Eugene H. Sharp and Doris E. Sharp, his wife, to the City of Mountain View, A Municipal Corporation, by Deed dated July 18, 1978, recorded April 22, 1982 in Book G739, Page 454, Official Records, described as follows:

Being the Southerly 35.00 feet of Lot 20, TERRA BELLA ACRES, a Map of which was filed for record in Book "W" of Maps, at Page 56, Santa Clara County Records, as said Lot 20, is measured from the center line of TERRA BELLA AVENUE.

April 25, 2014

Calvano Development
900 Bush Street, Penthouse 1
San Francisco, CA 94109

Attn: Mark Calvano

Re: Phase I Environmental Site Assessment
1091 North Shoreline
Mountain View, CA

Dear Mr. Calvano:

Thank you for providing Applied Water Resources Corporation (AWR) the opportunity to assist you in identifying the environmental issues at 1091 North Shoreline, in Mountain View, California.

The site is a 1.8527 acre irregularly shaped parcel with a triangular-shaped two story multiple tenant office building. The building was constructed in approximately 1980. Interstate 101 was constructed north of the site between 1956 and 1965. In the 1956 aerial photograph, the site appears to have been partially occupied by the western part of a large building that extended north and west of the current site boundaries. Prior to this, the site appears to have been used as orchards and agricultural and residential structures since at least 1939.

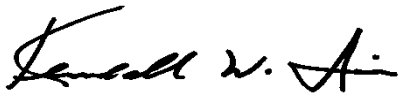
The property is operated as an office building. Other than shared open spaces, OnLive, an online software company occupies the first floor, HUB Insurance occupies approximately 2/3 of the second floor, Agilone occupies the remainder of the second floor.

The site is near but does not appear to be impacted by several known solvent releases impacting groundwater over a large area west of Shoreline Boulevard and smaller releases closer to the site. The sources and responsible parties for the regional plumes are known and the investigation and remediation is ongoing. The subject site was never named as a possible source of the impacts and does not appear to have been significantly impacted by the regional solvent plumes. No additional investigation is recommended with regards to the regional solvent plumes.

Based on the age of the buildings, there is a low potential asbestos-containing materials and/or lead based paint are present in the building. Although this is not a recognized environmental condition (REC) as defined by the ASTM Standard Practice, any renovation or demolition must comply with applicable regulations regarding asbestos-containing materials and lead based paint including appropriate testing and if required, mitigation.

AWR looks forward to working with you on this project. Please contact me at 408.496.0801 or at kprice@erscorp.us if you have any questions or comments.

Best Regards
APPLIED WATER RESOURCES CORPORATION



Kendall W. Price CEG, REA
Principal Consultant/Regional Manager

PHASE I ENVIRONMENTAL SITE ASSESSMENT

1091 North Shoreline
Mountain View, California

April 25, 2014

Prepared For:

Calvano Development
900 Bush Street, Penthouse 1
San Francisco, CA 94109

APPLIED WATER RESOURCES

EXECUTIVE SUMMARY

Consultant:	Applied Water Resources Corporation (AWR)
Subject Property:	1091 North Shoreline, Mountain View, California
Client:	Calvano Development
Location:	The site is located on the western side of North Shoreline south of the on-ramp for interstate 101 in Mountain View, California.
Current Use:	The site has one building with three tenants and is primarily used for offices. The property is operated as an office building. Other than shared open spaces, OnLive, an online software company occupies the first floor, HUB Insurance occupies approximately 2/3 of the second floor, Agilone occupies the remainder of the second floor.
Current Owner:	The property is currently owned by JW Equties LLC.
Site Characteristics:	The site is a 1.8527 acre irregularly shaped parcel with a triangular-shaped two story multiple tenant office building. The building was constructed in approximately 1980. Interstate 101 was constructed north of the site between 1956 and 1965. In the 1956 aerial photograph, the site appears to have been partially occupied by the western part of a large building that extended north and west of the current site boundaries. Prior to this, the site appears to have been used as orchards and agricultural and residential structures since at least 1939.
Vicinity Characteristics:	The property is in a mixed use area with commercial, residential, and light industrial uses within the City of Mountain View, California.
Purpose:	This Phase I Environmental Site Assessment (ESA) was performed to (1) identify any recognized environmental conditions (RECs), and (2) permit a user to satisfy one of the requirements to qualify for the innocent landowner defense under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) liability protection (42 U.S.C. §9601). All components of this ESA were performed or overseen by Environmental Professionals as defined in the All Appropriate Inquiries (AAI)

Standard and the American Society for Testing and Materials (ASTM) E 1527-05.

Conclusions:

The site is near but does not appear to be impacted by several known solvent releases impacting groundwater over a large area west of Shoreline Boulevard and smaller releases closer to the site. The sources and responsible parties for the regional plumes are known and the investigation and remediation is ongoing. The subject site was never named as a possible source of the impacts and does not appear to have been significantly impacted by the regional solvent plumes. No additional investigation is recommended with regards to the regional solvent plumes.

Based on the age of the buildings, there is a low potential asbestos-containing materials and/or lead based paint are present in the building. Although this is not a recognized environmental condition (REC) as defined by the ASTM Standard Practice, any renovation or demolition must comply with applicable regulations regarding asbestos-containing materials and lead based paint including appropriate testing and if required, mitigation.

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1.0 INTRODUCTION

On behalf of Calvano Development (hereinafter referred to as the "Client"), Applied Water Resources Corporation (AWR), performed a Phase I Environmental Site Assessment (ESA) of the property located at 1091 North Shoreline, Mountain View, Santa Clara County, California (hereinafter referred to as the "subject property").

1.1 Purpose

This ESA was performed to provide a record of the site conditions at the subject property and to evaluate what, if any, recognized environmental conditions exist at this site. Additional goals of this ESA are to identify recognized environmental conditions (RECs) from current and historical practices on the subject property and surrounding area and to assist the Client to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations from Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) liability.

1.2 Detailed Scope of Services

The following tasks were performed in accordance with the Scope of Services.

- Visual site inspection of the subject property to investigate for recognized environmental conditions. AWR is not responsible for inspecting areas covered by parked vehicles, overgrown vegetation, and other obstacles preventing access.

- A historical review of the use and improvements of the subject property through a review of aerial photographs, historical topographic maps, city directories, fire insurance maps, title reports, and/or building department records.

- A review of available geologic and hydrogeologic literature concerning the property and surrounding area.

- Interviews of persons familiar with the history of the subject property, including key site managers, owners, tenants, past tenants, and/or previous owners.

- Review of appropriate federal, state, and local regulatory agencies to reveal known hazardous wastes sites or significant leaks or spills of hazardous materials that may have occurred at the subject property and immediate vicinity.

- Interviews with applicable local agencies familiar with the areas in the vicinity of the subject property such as local fire departments, health departments, Regional Water Quality Control Board, and/or other local government agencies.

1.3 Significant Assumptions

No significant assumptions were made during this Phase I ESA.

1.4 Limitations and Exceptions of Agreement

AWR has performed the services for this project in accordance with our proposal, and within the current standards of the American Society for Testing and Materials (ASTM 1527-13) for Phase I Environmental Site Assessments and the standards for All Appropriate Inquiries (AAI) approved by the Federal Environmental Protection Agency. Except for the representations set forth in this Phase I ESA, no other representations, guarantees, or warrantees are either expressed or implied. A record search was limited to reasonably ascertainable information that could be obtained within 20 calendar days.

The review was limited to a search for RECs at the subject property. The term REC means the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimus* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

There is no investigation that is thorough enough to preclude the presence of hazardous materials that presently, or in the future, may be considered hazardous at the site. Because regulatory evaluation criteria are constantly changing, concentrations of contaminants presently considered low may, in the future, fall under more stringent regulatory standards that require remediation.

The Site Reconnaissance was limited to visual observation of surface conditions at the subject property. Interviews with public agency personnel were conducted. Reasonably ascertainable information was reviewed. This approach reflects current ASTM standards and AAI regulations.

Where there is a conflict between the environmental database and AWR's actual knowledge with regard to the distance and direction from the subject property of sites listed on the database, information obtained by AWR from the site reconnaissance was used. Whenever feasible, AWR notes such conflict within the text of the report.

This ESA addresses recognized environmental conditions at the subject property. However, certain conditions, such as those listed below may not be revealed:

1) naturally occurring toxic materials in subsurface soils, rocks, or water, or toxicity of onsite flora;
2) toxicity of substances common in current habitable environments, such as stored household products, building materials, and consumables;
3) biological pathogens;
4) contaminant plume below the depths sampled or from remote source;
5) contaminants or contaminant concentrations that do not violate present regulatory standards, but may violate future standards; and
6) unknown site contamination, such as illegal dumping and/or accidental spillage which may occur following the site visit by AWR.

Opinions and judgments expressed herein, which are based on our understanding and interpretation of current regulatory standards, should not be construed as legal opinions. This document and the information contained herein have been prepared solely for the Client and any reliance on this report by third parties not authorized by the Client shall be at such party's sole risk.

Conducting an AAI Phase I ESA alone does not provide a landowner with protection against CERCLA liability. Landowners who want to qualify as bona fide prospective purchasers or contiguous property owner must comply with all of the statutory requirements identified in CERCLA Section 107(r) and 107(q).

1.5 Special Terms and Conditions

No special terms or conditions were agreed upon for conducting this Phase I ESA.

1.6 User Reliance

As specified in ASTM E 1527-13, Sections 7.5.2 and 7.5.2.1, AWR is not required to independently verify the information provided by the User (Client), obtained from interviews, previous environmental reports, and/or reviewed documents during records review.

2.0 SITE DESCRIPTION

2.1 Site Location

The site address is 1091 North Shoreline, Mountain View, Santa Clara County, California. The site consists of one approximately 1.8527 acre parcel. The site is located on the western side of North Shoreline south of the on-ramp for interstate 101 in Mountain View, California. The site is referenced as Santa Clara County Assessor's Parcel Number 153-15-028.

2.2 Site and Vicinity General Characteristics

The property is in a mixed use area with commercial and light industrial uses adjacent to the site within the City of Mountain View, California.

2.3 Current and Proposed Use of the Property

The property is improved with an office building with three tenants. Other than shared open spaces, OnLive, an online software company occupies the first floor, HUB Insurance occupies approximately 2/3 of the second floor, Agilone occupies the remainder of the second floor.

It is our understanding Calvano Development is proposing to purchase the site. No information on proposed use of the property was provided to AWR.

2.4 Description of Structures, Road, and Other Improvements

The site is a 1.8527 acre parcel with a two-story triangular office building. The building was constructed in approximately 1980.

The site is an irregularly shaped parcel located on the eastern side of North Shoreline south of the on-ramp for Interstate 101 and is accessed from North Shoreline.

2.5 Current Uses of the Adjoining Properties

The property is in a mixed use area. Adjacent properties appear to be a mixture of light industrial and commercial uses.

3.0 USER PROVIDED INFORMATION

3.1 Title Records

An Environmental Liens Search was performed by EDR as a part of this Phase I ESA. The lien search, including the most recent grant deed, is included in Appendix J. No additional title information was provided by the user.

3.2 Environmental Liens or Activity and Use Limitations

The Environmental Professional is required to search for Activity and Use Limitations (AULs) if such records are available in *"publicly available lists or registries."* Typical AULs include land use restrictions (LURs), institutional controls (ICs), and Engineering Controls (ECs). Typical ICs include: 1) governmental controls such as zoning; 2) proprietary controls such as covenants or easements; 3) enforcement documents such as orders or consent decrees; and 4) information devices such as land record or deed notices. Typical ECs include: 1) passive measures such as vapor barriers and setbacks; 2) active measures such as remediation systems; and 3) monitoring of passive and/or active measures. According to 40 CFR Part 312.26 (b) (7), ICs are to be investigated on the subject property and according to 40 CFR Part 312.26 (b) (6) and (c) (2) (ii), ECs are to be reviewed to a 0.5 mile radius of the subject property. ASTM 1527-05 recommends that ECs be reviewed only for the subject property.

An Environmental Liens Search was performed for the subject property. The Environmental Liens Search did not report any environmental liens associated with the subject property.

3.3 Specialized Knowledge

AWR was not informed of any specialized knowledge associated with the subject property or the area in the vicinity of the subject property.

3.4 Commonly Known or Reasonably Ascertainable Information

AWR was did not discover any commonly known or reasonable ascertainable information associated with the subject property or the area in the vicinity of the subject property.

3.5 Valuation Reduction for Environmental Issues

AWR was not provided with purchase price information.

3.6 Owner, Property Manager, and Occupant Information

The property is currently owned by JW Equties LLC.

The property is operated as an office building. Other than shared open spaces, OnLive, an online software company occupies the first floor, HUB Insurance occupies approximately 2/3 of the second floor, Agilone occupies the remainder of the second floor.

No property manager was identified to AWR.

3.7 Reason for Performing the Phase I ESA

AWR has performed this Phase I ESA in preparation of a proposed property transfer.

3.8 Previous Reports

AWR was not provided with any previous reports for the subject site.

4.0 RECORDS REVIEW

The government environmental agency databases AWR reviewed are listed on pages 4 through 7 of the Map Findings Summary of the database obtained from Environmental Data Resources, Inc. (EDR), included as Appendix C. Please refer to the EDR report in Appendix C for additional information on the searched databases including the full names of the databases, the regulatory agency overseeing the databases, a summary of the types of facilities listed on each database, and the dates the information was obtained from the regulatory agencies. Where locations and distances reported by EDR were observed to be incorrect, AWR amended the information to provide a more accurate assessment.

AWR also requested information from the San Francisco Bay Regional Water Quality Control Board, the Santa Clara County Environmental Health Department, the Santa Clara Valley Water District, the Mountain View Fire Department, and the California Department of Toxic Substance Control Envirostor database. Information from these sources for the subject site is included in Section 4.1.1. Information on nearby releases is included in Section 4.1.2.

4.1 Standard Environmental Record Sources

4.1.1 Subject Property

The site address was listed as McCandless Land and Cattle Company on the HAZNET database. According to the EDR report, a shipment of 0.834 tons of waste oil and mixed oil were sent from

the site for offsite disposal in 1999. Inclusion on this database does not imply a release has occurred and there is no evidence of release or material mishandling. This is not a REC as defined in the ASTM standard practice.

AWR also requested information from the San Francisco Bay Regional Water Quality Control Board, the Santa Clara County Environmental Health Department, the Santa Clara Valley Water District, the Mountain View Fire Department, and the California Department of Toxic Substance Control Envirostor database.

Mountain View Fire Department

AWR reviewed files for the site at the Mountain View Fire Department. The Mountain View Fire Department is the Certified Unified Program Agency (CUPA) for properties in Mountain View. As a CUPA, the Mountain View Fire Department is responsible for implementing the following programs: Above Ground Storage Tanks, California Accidental Release Prevention Program (CalARP), Hazardous Materials Management Plans/Business Plans, Hazardous Waste Generator, On Site Treatment of Hazardous Wastes, and Underground Storage Tanks. The Mountain View Fire Department had no record of hazardous materials or underground storage tanks at the site.

Santa Clara County Environmental Health Department

AWR reviewed files at the Santa Clara County Environmental Health Department Leaking Underground Storage Tank Oversight Program (LUSTOP). There were no release files for the subject site address. Files reviewed for nearby releases potentially impacting the site are discussed in Section 4.1.2.

California Department of Toxic Substance Control

AWR reviewed files at the California Department of Toxic Substance Control Envirostor database. There were no release files for the subject site address. Files reviewed for nearby releases potentially impacting the site are discussed in Section 4.1.2.

Regional Water Quality Control Board

AWR reviewed files at the Regional Water Quality Control Board Geotracker database. There were no release files for the subject site address. Files reviewed for nearby releases potentially impacting the site are discussed in Section 4.1.2.

US EPA Region 9

AWR reviewed files available online for the US Environmental Protection Agency (EPA) Region 9 Superfund sites. There were no release files for the subject site address. Files reviewed for nearby releases potentially impacting the site are discussed in Section 4.1.2.

4.1.2 Offsite Listings

Based upon a review of groundwater monitoring data collected at nearby release investigations, groundwater beneath the subject property was calculated to flow toward the north and was encountered at depths ranging from 4 to 16 feet below ground surface (bgs). Based on this inferred groundwater flow direction, offsite listings that are adjacent to or south of the subject site have the greatest potential to impact the subject site. The sites of note are discussed below:

- There are six federal national priority list (NPL) sites, also known as Superfund sites, within one mile of the site including two which are within ¼-mile of the site. The NPL listings are Moffett Naval Air Station, Intel Corp (Mountain View Plant) Teledyne Semiconductor, Spectra-Physics, Inc., Jasco Chemical Corp., and CTS Printex, Inc. The NPL listings are primarily for releases of solvents and several of the plumes are mingled. In addition, there are several state-overseen releases that have contributed to the regional impacts. AWR reviewed information in the EDR report as well as additional information obtained from EPA Region 9, California DTSC, and the RWQCB. Based on our review of the information, the site is near but does not appear to be impacted by several known solvent releases impacting groundwater over a large area. It appears that the intermingled plumes are primarily west of Shoreline Boulevard. The sources and responsible parties for the regional plumes are known and the investigation and remediation is ongoing. The subject site was never named as a possible source of the impacts and does not appear to have been significantly impacted by the regional solvent plumes.

- Texaco (CVX #21-1179) at 975 Shoreline Blvd (formerly known as Sterlin Road) was identified on the CA LUST and CA HIST LUST databases. These are databases that list facilities that have had releases from underground storage tanks. AWR obtained additional information on this release from the Santa Clara County Environmental Health Department LUSTOP program. Selected records are included in Appendix K. A monitoring well was installed on th4e property south of the subject site in 1990 for the investigation associated with a release of gasoline from former underground storage tanks at the former Texaco Station at 975 Shoreline Blvd (at the southwest corner of the intersection of North Shoreline Boulevard and Terra Bella Avenue). Sampling conducted from 1990 through 1992 revealed significant gasoline impacts in the groundwater samples from the well at the adjacent property south of the site. When the remediation activities began at the subject site, the concentrations decreased. Between 1992 and 1994, the concentrations in the samples collected from the well at the site dropped significantly and stabilized at lower concentrations. From 2002 until the release investigation was closed and the well was properly abandoned, no impacts were detected in any of the groundwater samples

collected from the monitoring well near the site during 30 separate groundwater monitoring events. In 2010, Boring B-1 was advanced on the subject site to test for possible impacts and all three of the samples collected from the boring (at 5 feet, 7.5 feet, and 10 feet below the surface) were non-detect for all the analyzed parameters. Based on the concentrations observed at the adjacent, upgradient property, it is possible the contamination extended onto the property prior to the source remediation. The subject site was never named as a possible source of the impacts and the source release has been closed. This is classified as a potential Historical Recognized Environmental Condition (HREC) since any former impacts appear to have been mitigated, the subject site no longer appears to be impacted, and the release investigation has been closed indicating it has been resolved to the satisfaction of the overseeing regulatory agency. No additional investigation is recommended with regards to this nearby release.

- Robb-Jack Corp. at 1080 Linda Vista was identified on the CA LUST and CORTESE databases. These are databases that list facilities that have had releases from underground storage tanks. AWR obtained additional information on this release from the Santa Clara County Environmental Health Department LUSTOP program. Based on our review of the information, groundwater impacts appear to have been minimal and it does not appear that this release impacted the subject site. The release was closed in 1996 indicating no additional investigation or remediation is required.

Based on the distance, direction, and/or nature of the remaining listings, in our opinion, none of the other listings are likely to impact the subject site.

4.1.3 Other Sites of Potential Environmental Concern

AWR did not identify any other sites of environmental concern. AWR reviewed the sites in the EDR Database that were unable to be mapped. None of the listings appeared to correspond to the site or adjacent properties. None of the listings appear likely to have the potential to impact the site.

4.2 Additional Environmental Record Sources

AWR reviewed information on this site from the Mountain View Fire Department, the California Department of Toxic Substance Control (DTSC) Envirostor database, the Santa Clara County Environmental Health Department LUSTOP program, the California Geotracker Database, and US EPA. Information from these sources for the subject site was discussed in Section 4.1.1. Information from these sources on the nearby properties was included in Section 4.1.2.

4.3 Physical Setting Sources(s)

The EDR Report in Appendix C indicates that the underlying hard rock geology consists of Cenozoic Quaternary stratified sequence. Surface soils in the vicinity of the site are classified by the United States Department of Agriculture (USDA) Soil Conservation Service (SCS) as Botella clay loam.

Based upon a review of groundwater monitoring data collected at nearby release investigations, groundwater beneath the subject property was calculated to flow toward the north and was encountered at depths ranging from 4 to 16 feet below ground surface (bgs).

Current site-specific information on groundwater flow direction, depth, and quality can only be confirmed through the installation and survey of a minimum of three on-site groundwater-monitoring wells, which was beyond the scope of this assessment.

According to the 1999 USGS Mountain View, California Quadrangle Map, the site elevation is approximately 35 feet above mean sea level with a slight regional topographic slope downward to the north.

4.4 Historical Use Information on the Property

AWR reconstructed a brief history of the subject property through a review of historical Topographic Maps; the EDR City Abstract; available records, permits and other documents available at Santa Clara County; and historical aerial photographs provided by EDR. A summary of historical sources can be found in Section 12.0 of this Report with pertinent documents available in Appendices.

According to historical sources, the subject property appears to have been used as orchards and agricultural and residential buildings since at least 1939 through approximately 1948. The current site building was constructed in approximately 1980. In the 1956 aerial photograph, a building appeared to be partially located on the site extending east and north of the current site boundaries. This building was gone by the 1965 photograph which showed the current on-ramp for Interstate 101 passing through the northern portion of the former building location.

4.5 Historical Use Information on Adjoining Properties

The surrounding properties were primarily agricultural fields until being developed with light industrial development in the 1960s and early 1970s.

5.0 SITE RECONNAISSANCE

The goal of the site reconnaissance is to obtain information indicating the likelihood of identifying RECs in connection with the subject property. The subject property is visually observed and any structures located on the property are observed to the extent not obstructed by bodies of water, adjacent buildings, and/or other obstructions.

5.1 Methodology and Limiting Conditions

The exterior site reconnaissance was performed by walking open areas of the property in a grid fashion. Special attention was given to observe surfaces adjacent to the structures and sidewalks, surfaces in storage areas, and potential conduits to the subsurface such as drains and sumps. The interior site reconnaissance was performed by systematically observing each room and open space of the property. Additional attention was given to doors, utility rooms, storage areas, areas where hazardous materials were used or stored, and any other accessible areas.

5.2 General Site Setting

On April 8, 2014, Ms. Janelle Amendola of AWR conducted a site reconnaissance at the subject property.

5.3 Exterior Observations

The majority of the site is occupied by the landscaping and parking and driving areas.

No staining, stressed vegetation, or unusual odors were observed at the site.

5.4 Interior Observations

The site is occupied by three tenants. A shared lobby and stairs/elevator area is located in the central portion of the site. OnLive is an online software company that occupies the remainder of the first floor and has been at the site for approximately one year. HUB Insurance occupies approximately 2/3 of the upstairs tenant spaces and has been at the site for approximately six year. Agilone, occupies the remainder of the second floor with offices for a tech company. Other than routine janitorial chemicals, no hazardous materials were observed in any of the tenants or common areas at the site.

Plastic tarps were observed on the second floor balconies at the site. According to the site representative, the tarps are there to prevent rain from collecting on areas that are planned to be renovated. AWR did not inspect under the tarps or above the ceiling panels on the first floor below the balcony but did not observe any significant water damage or other staining on the first floor or elsewhere in the building.

5.4 Non-Scope Items

The following non-scope items were included as part of this Report based on readily available information that was reviewed.

5.4.1 Suspect Asbestos Containing Building Materials and Lead-Based Paint

Based on the age of the buildings, there is a low potential that asbestos containing materials and/or lead based paint have been used at the site.

5.4.2 Radon

No radon survey was conducted. According to the EDR report, Santa Clara County is in zone 2, indicating the average indoor level is between 2 and 4 picocuries per liter (pCi/L). The US Environmental Protection Agency (USEPA) action level is 4 pCi/L.

6.0 INTERVIEWS

6.1 Interview with Owner Representative

The site owner representative provided access to the building and answered questions on the nature of the tenant operations at the site. .

6.2 Interview with Site Manager

No Site Manager was identified.

6.3 Interviews with Occupants

The site occupants provided access to their units and answered questions about their operations during the site reconnaissance.

6.4 Interviews with Local Government Officials

AWR reviewed information from the Mountain View Fire Department, the Santa Clara County Environmental Health Department, the San Francisco Bay Regional Quality Control Board, and the California Department of Toxic Substance Control. Information from these requests is presented elsewhere throughout this report.

6.5 Interviews with Others

AWR did not perform any interviews with others regarding the subject property.

7.0 FINDINGS

The building appears to have been used primarily as an office building. No indication of significant hazardous material use or storage in the building or on the site was observed during the site reconnaissance or discovered during our historical research for this Phase I ESA.

A release at a former Texaco (CVX #21-1179) at 975 Shoreline Blvd (formerly known as Sterlin Road) was identified on the CA LUST and CA HIST LUST databases may have historically impacted the subject site. AWR obtained additional information on this release from the Santa Clara County Environmental Health Department LUSTOP program. A monitoring well was installed on th4e property south of the subject site in 1990 for the investigation associated with a release of gasoline from former underground storage tanks at the former Texaco Station at 975 Shoreline Blvd (at the southwest corner of the intersection of North Shoreline Boulevard and Terra Bella Avenue). Sampling conducted from 1990 through 1992 revealed significant gasoline impacts in the groundwater samples from the well at the adjacent property south of the site. When the remediation activities began at the subject site, the concentrations decreased. Between 1992 and 1994, the concentrations in the samples collected from the well at the site dropped significantly and stabilized at lower concentrations. From 2002 until the release investigation was closed and the well was properly abandoned, no impacts were detected in any of the groundwater samples collected from the monitoring well near the site during 30 separate groundwater monitoring events. In 2010, Boring B-1 was advanced on the subject site to test for possible impacts and all three of the samples collected from the boring (at 5 feet, 7.5 feet, and 10 feet below the surface) were non-detect for all the analyzed parameters. Based on the concentrations observed at the adjacent, upgradient property, it is possible the contamination extended onto the property prior to the source remediation. The subject site was never named as a possible source of the impacts and the source release has been closed. This is classified as a potential Historical Recognized Environmental Condition (HREC) since any former impacts appear to have been mitigated, the subject site no longer appears to be impacted, and the release investigation has been closed indicating it has been resolved to the satisfaction of the overseeing regulatory agency. No additional investigation is recommended with regards to this nearby release.

The site is near but does not appear to be impacted by several known solvent releases impacting groundwater over a large area west of Shoreline Boulevard and smaller releases closer to the site. The sources and responsible parties for the regional plumes are known and the investigation and remediation is ongoing. The subject site was never named as a possible source of the impacts and does not appear to have been significantly impacted by the regional solvent plumes. No additional investigation is recommended with regards to the regional solvent plumes.

Based on the age of the buildings, there is a low potential asbestos-containing materials and/or lead based paint are present in the building. Although this is not a recognized environmental condition (REC) as defined by the ASTM Standard Practice, any renovation or demolition must comply with applicable regulations regarding asbestos-containing materials and lead based paint including appropriate testing and if required, mitigation.

7.1 Data Gaps

AWR was not able to review a Chain of Title Report for the subject property. It is AWR's opinion that the lack of this information does not pose a significant data gap, as an environmental lien search was performed for the subject property and revealed no issues.

AWR was not able to interview current or past owners or occupants. Given the residential use of the site, in our opinion, this is not a significant data gap.

7.2 Continuing Obligations

Continuing obligations start on the date that a landowner acquires title to a property. The landowner must: 1) comply with land use restrictions and institutional controls; 2) take "reasonable" steps with respect to hazardous substances releases; 3) provide full cooperation, assistance and access to persons that are authorized to conduct response actions or natural resource restoration; 4) comply with information requests and administrative subpoenas; and 5) provide all legally required notices. Continuing obligations must be satisfied to maintain liability protection under CERCLA for innocent landowners, bona fide prospective purchasers, and contiguous property owners.

AWR identified no ongoing continuing obligations for the subject site.

8.0 OPINION

8.1 Opinion of Findings

The regional solvent releases do not appear to have significantly impacted the site. Any impacts to the site from the former petroleum release at the former Texaco at 975 Shoreline have been mitigated.

The low potential for asbestos and/or lead based paint in the building materials at the site is not a REC but must be managed appropriately.

No other potential RECs were identified in conjunction with the site.

8.2 Recommendations

AWR recommends no additional environmental sampling with regards to potential RECs identified at the site.

The low potential for asbestos and/or lead based paint in the building materials at the site is not a REC but must be managed appropriately.

9.0 CONCLUSIONS

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-05 of 1091 North Shoreline, Mountain View, Santa Clara County, California, the subject property. Any exceptions to, or deletions from, this practice are described in Section 5.1 of this Report.

This assessment has revealed no evidence of Recognized Environmental Conditions in connection with the subject property.

10.0 DEVIATIONS

AWR did not evaluate the purchase price versus property value as AWR is not qualified to evaluate this issue.

11.0 ADDITIONAL SERVICES

AWR has also completed no additional services in conjunction with this Phase I ESA.

12.0 REFERENCES

EDR City Abstract:– 1957-2012.

Historic Sanborn® Fire Insurance Maps: No coverage.

Aerial Photographs: 1939, 1948 1956, 1968, 1974, 1982, 1991, 1999, 2005, 2006, 2009, 2010, and 2012.

The following governmental agencies were contacted to obtain the information in this report:

Jurisdiction	Agency
Federal	U.S. Environmental Protection Agency, Region IX, San Francisco
State and Regional	State of California Environmental Protection Agency, Department of Toxic Substances Control, Berkeley San Francisco Bay Regional Water Quality Control Board
County and Local	Santa Clara County Environmental Health Dept. Mountain View Building Department

Websites:
http://www.envirostor.dtsc.ca.gov/public/
http://www.geotracker.swrcb.ca.gov/
http://www.dhs.ca.gov/radon/default.htm

13.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

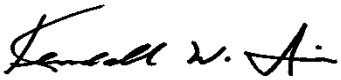
We declare that to the best of our professional knowledge and belief, we meet the definition of an Environmental Professional as defined in §312.21 of 40 CFR Part 312 and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Prepared by:



Janelle Amendola, REA
Environmental Assessor

Reviewed by:



Kendall W. Price, CEG, REA
Regional Manager/Principal Consultant

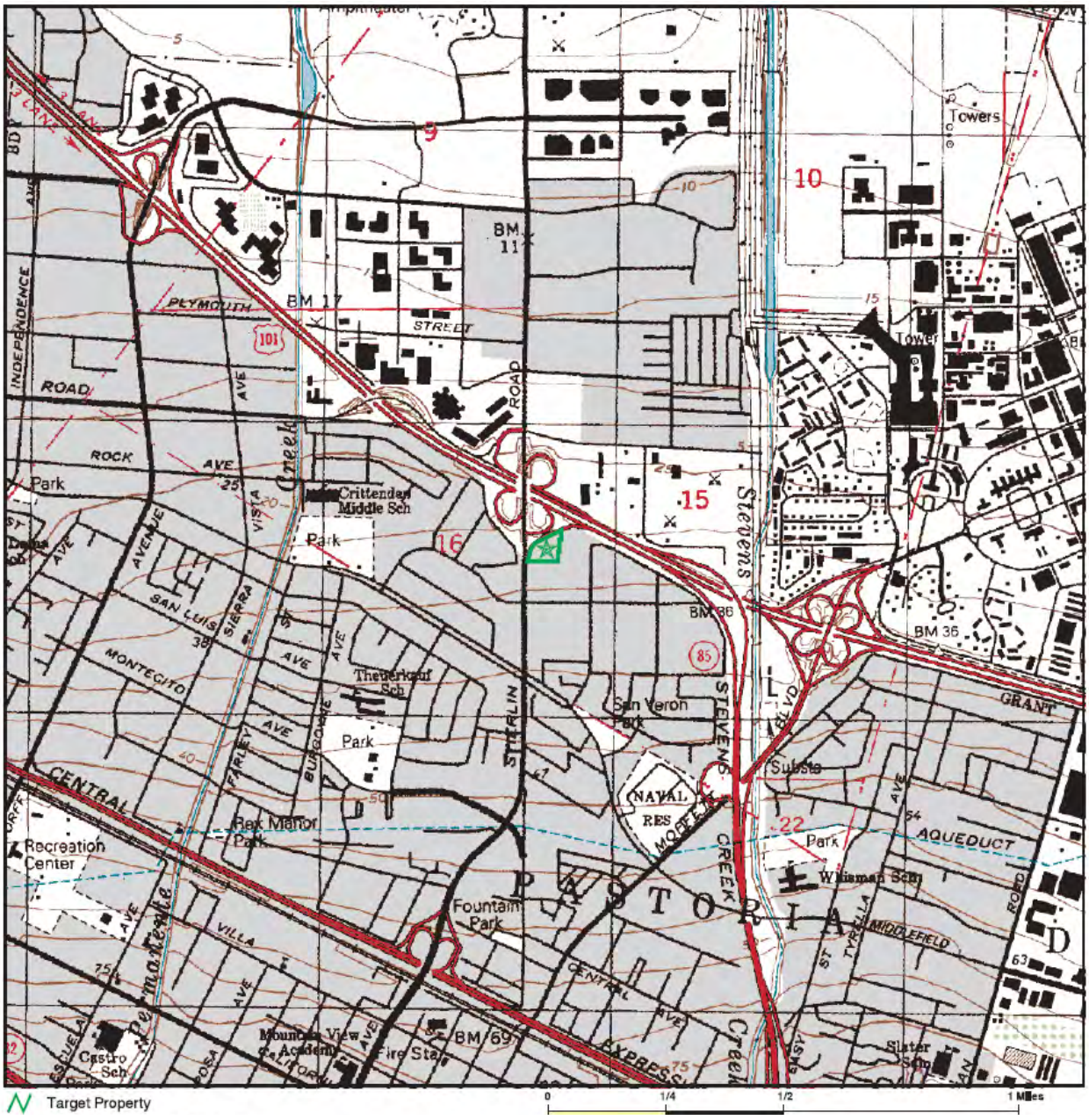
14.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Pursuant to 40 CFR 10 and according to 40 CFR Part 312, the Environmental Professionals listed in Section 13.0 possess sufficient education, training, and experience necessary to exercise the professional judgment to develop the opinions and conclusions regarding conditions indicative of releases or threatened releases on, at, in or to a property, sufficient to meet the objectives and performance factors in §312.20(e) and (f). See Appendix D for resumes on the following individuals:

Ms. Janelle Amendola

Mr. Kendall Price

APPENDIX A
Site Location Map



NOTE: Base map prepared by USGS and provided to AWR by ERS

FIGURE 1 – Site Location

1091 North Shoreline
Mountain View, California

APPLIED WATER RESOURCES

APPENDIX B
Site Photographs



Photo 1: View of building exterior



Photo 2: View of building exterior

APPLIED
WATER
RESOURCES



Photo 3: View of front of building – one of the balconies is shown at right



Photo 4: View of plastic on balcony

APPLIED WATER RESOURCES

CORNERSTONE EARTH GROUP

Type of Services	**Preliminary Soil Vapor Quality Evaluation**
Location	**1001 North Shoreline Boulevard** **Mountain View, California**
Client	**Calvano/CRP Mountain View Venture, LLC**
Client Address	**11900 NE 1st Street Suite 300** **Bellvue, WA 98005**
Project Number	**693-1-2**
Date	**June 16, 2015**



Prepared by **Ron L. Helm, P.G., C.E.G.**
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CORNERSTONE EARTH GROUP

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CORNERSTONE EARTH GROUP

Type of Services	**Preliminary Soil Vapor Quality Evaluation**
Location	**1001 North Shoreline Boulevard Mountain View, California**

SECTION 1: INTRODUCTION

This report presents the results of the Preliminary Soil Vapor Quality Evaluation performed at 1001 North Shoreline Boulevard located in Mountain View, California as shown on Figures 1 and 2 (Site).

This work was performed in accordance with our agreement dated April 2, 2015. Cornerstone Earth Group (Cornerstone) prepared a Soil Vapor Quality Evaluation Work Plan (Work Plan – May 1, 2015), which was submitted to San Francisco Regional Water Quality Control Board (Water Board) and City of Mountain View (City).

1.1 SITE DESCRIPTION

The approximately 8-acre Site is bounded by existing commercial developments to the north and east, North Shoreline Boulevard to the west, and Terra Bella Avenue to the south. The Site is relatively level, but graded to drain to storm drainage facilities. The Site is currently occupied by several commercial buildings, parking lots, and storage sheds, which will be demolished prior to construction of the new office building and associated flatwork.

The project will consist of redeveloping the Site for a new Class A office complex (Figure 2). The new four-story office building will have a footprint of approximately 30,000 square feet. The building will be steel-frame construction. The remainder of the Site will be covered with at-grade asphalt concrete pavement and associated flatwork improvements. We also understand a one-level below-grade parking garage is also being considered but has yet to be finalized.

1.2 PURPOSE

Based on the proximity to the Teledyne Spectra-Physics ground water plume and the former Texaco Service Station at 975 North Shoreline Boulevard (Figure 2), a Preliminary Soil Vapor Evaluation was performed to determine if vapor intrusion mitigation measures are required for the proposed commercial development.

1.3 SUBSURFACE CONDITIONS

Based on the Geotechnical Investigation (Cornerstone, May 2014), approximately 1 to 2 feet of undocumented fill consisting of fat clay mixed with varying percentages of gravel and sand lies beneath the surface asphalt concrete pavement. The fill was underlain by very stiff, high plasticity clay to a depth of approximately 6½ to 7½ feet. Approximately 45 feet of medium stiff to very stiff lean clay with variable amounts of sand and sandy silt interbedded with layers of loose to very dense clayey sand, poorly graded sand with silt, and clayey sand was observed beneath the surficial clay. Cone penetration test (CPT) borings advanced to approximately 100

feet encountered stiff to very stiff clays and silts interbedded with occasional thin layers of silty or clayey sand beneath a depth of approximately 45 feet.

Shallow ground water was measured during the Geotechnical Investigation at approximately 10½ feet below the existing ground surface.

1.4 SCOPE OF WORK

As presented in the Work Plan, the scope of work performed included the following:

- Installation of four dual-depth vapor probes (approximate depths of 5 and less than approximately 10 feet) for the collection and laboratory analyses of soil vapor samples
- Preparation of this report

The limitations for this investigation are presented in Section 3.

SECTION 2: PRELIMINARY SOIL VAPOR QUALITY EVALUATION

2.1 PRE-FIELD ACTIVITIES

Prior to performing the field work, boring locations were marked and the regional underground utility locating service USA North was notified at least 48 working hours prior to drilling. A private utility locator was also contracted to clear the boring locations.

2.2 SUBSURFACE INVESTIGATION

Subsurface investigation activities were performed on May 11, 2015. Our field geologist directed a subsurface exploration (truck-mounted Geoprobe) and logged four temporary exploratory borings (SV-1 to SV-4) to approximate depths of 9½ feet in general accordance with the Unified Soil Classification System (ASTM D-2487). Exploratory boring locations are shown on Figure 2. Boring logs are presented in Appendix A.

2.2.1 Subsurface Materials and Ground Water

Similar to the previous geotechnical investigation conducted by Cornerstone, subsurface materials encountered in the exploratory borings generally consisted of clays with varying amounts of silt and sand. Fill consisting of sand with gravel was observed to a depth of approximately 1 to 2 feet in borings SV-1, SV-2 and SV-4. Ground water was not observed in the exploratory borings.

2.3 SOIL VAPOR QUALITY EVALUATION

Protocols presented below follow the general requirements of the April 2012 document entitled, “Advisory – Active Soil Gas Investigations”, prepared by the Department of Toxic Substances and Control and Los Angeles and San Francisco Regional Water Quality Control Boards

2.3.1 Soil Vapor Sampling

The temporary soil vapor probes were installed on May 11, 2015 with stainless steel porous tips affixed to stainless-steel tubing within sand intervals. The sand intervals extended from depths of approximately 4¼ to 5 feet and 8¾ to 9½ feet in SV-1, 3¼ to 4 feet and 8½ to 9¼ in SV-2, 4½ to 5¼ feet and 8¾ to 9½ feet in SV-3, and 4½ to 5¼ feet and 8¼ to 8¾ in SV-4.

The probes were constructed by first placing approximately 2 inches of coarse aquarium sand into the bottom of the borehole using a tremie pipe. The lower stainless steel tip and tubing was then lowered into the borehole via tremie pipe and additional sand was then placed in the borehole an approximately 1 foot sand pack interval around the vapor tip. Approximately 1 foot of granular bentonite (Benseal™) was placed on top of the sand pack via the tremie pipe. Bentonite "gel" was then placed on top of the dry granular bentonite to approximately ½ foot below the upper vapor probe. The process was repeated to install the upper vapor probes. The stainless steel tubing was be labeled with depth of placement and capped utilizing a vapor-tight Swagelok valve set in the "off" position. Well boxes were installed over the 3 vapor well locations within pavement areas.

2.3.2 Vapor Sampling Procedure

Vapor sampling was performed on May 14 and 15, 2015. The tubing emanating from the vapor points was affixed to a sample shut-off valve in the "off" position during the time needed to reach equilibrium, at least 48 hours after probe installation. No significant rain events occurred within 5 days prior to the vapor sampling.

A 167 milliliters-per-minute flow regulator inclusive of particulate filter was fitted to the shut-off valve and the other end to a "T" fitting. One end of the "T" was connected to the sampling summa canister. The other end of the "T" was affixed to a digital vacuum gauge and a 6-liter summa canister utilized for purging.

A minimum 1 minute vacuum tightness test was performed on the manifold and connections by opening and closing the 1-liter purge canister valve and applying and monitoring a vacuum on the vacuum gauge. The sample shut-off valve on the downhole side of the sampling manifold remained in the "off" position. When gauge vacuum was maintained for at least 1 minute without any noticeable decrease (less than approximately 0.1 inches of mercury (Hg) for properly connected fittings), purging began. The downhole shut off valve was opened and three purge volumes of vapor were removed using the 6-liter summa for purging. The volume of vapor removed was verified by the calculated pressure drop summa canister. Assuming the vapor probe has been properly sealed, the borehole sand pack vapor space will have equilibrated with the surrounding vapors following the equilibration period.

Sampling continued until the vacuum gauge indicates approximately 5 inches of Hg remaining. A datalogging photoionization detector (PID) will be utilized during sampling to monitor the atmosphere inside the shroud through a bulk-head fitting. The logged data (at minimum thirty [30] second intervals) was corrected to parts per million by volume isopropyl alcohol concentrations and utilized to evaluate the integrity of the sampling train.

Vapor samples were collected from the upper and lower probes in SV-2 and SV-3 and the upper probes only in SV-1 and SV-4. Attempts were made to collect samples from the lower probes in

SV-1 and SV-4, however due to low flow from the sampling train, sample collection was unsuccessful. A replicate sample from the upper probe in SV-1 also was collected.

2.3.3 Soil Vapor Laboratory Analyses

The seven soil vapor samples were analyzed for Volatile Organic Compounds (VOCs) by EPA Test Method TO-15, Total Petroleum Hydrocarbons (TPH) as gasoline by EPA Test Method TO-3, and for fixed gases carbon dioxide, oxygen and methane by ASTM Test Method D-1946. As a quality assurance measure, one trip blank provided by the laboratory also was analyzed for VOCs by TO-15. In addition, one air sample collected from the shroud atmosphere was analyzed for isopropyl alcohol.

2.3.4 Soil Vapor Sample Integrity Evaluation

Isopropyl alcohol (2-propanol, 91 percent) was utilized as a leak detection compound during sampling by applying approximately 9 to 14 drops to cotton gauze, placing the moistened gauze near the borehole, and allowing it to equilibrate within the shroud. Sampling began by opening the Summa canister valve. Immediately upon opening the sampling valve, the shroud was placed over and enclosed the atmosphere of the borehole and entire sampling train including all connections. 2-propanol was included in the analyses of the soil vapor samples collected and was detected above its laboratory reporting limit in 2 of 6 samples collected. The maximum detection of 2-propanol was 200 micrograms per cubic meter ($\mu g/m^3$) (SV-3, 9¼ feet) with an approximate calculated leakage rate of 0.18%. Analyses of the remainder of the samples did not detect 2-propanol above its laboratory reporting limits ranging from 12 $\mu g/m^3$ to 63 $\mu g/m^3$. This data indicates that the sample trains were sufficiently tight, and no significant leakage occurred.

A data logging photoionization detector (PID) was utilized during sampling to monitor the atmosphere inside the shroud through a bulk-head fitting. The logged data (at a minimum of 30 second intervals) was corrected to parts per million by volume (ppm_v) isopropyl alcohol concentrations and utilized to evaluate the integrity of the sampling train. To confirm the isopropyl alcohol atmosphere, one confirmation sample was collected from the shroud atmosphere of vapor probe SV-1 and analyzed for isopropyl alcohol. Laboratory analyses this shroud sample detected 2-propanol at 200,000 $\mu g/m^3$. During the same sampling time period (approximately 2 minutes), the shroud atmosphere was measured by the PID to contain approximately 16,000 $\mu g/m^3$. The PID appeared to underestimate the shroud atmosphere.

2.3.5 Quality Assurance

Data quality for the soil vapor samples was evaluated by implementing quality assurance procedures and review of analytical data, including analysis of a field replicate and travel blank. The following is a summary of the data quality review:

- Samples were analyzed within the required holding times for the requested analyses;
- The travel blank did not contain VOCs above the laboratory reporting limits;
- The results of the laboratory control and duplicate samples were within acceptable ranges; and

- Results for the field replicate sample (labeled as SV-1D4.5R) collected from location SV-1 (4½ feet) immediately following the collection of the SV-1 (4½ feet) sample generally agreed with respect to quantity and to detection of target compounds.

2.4 DISCUSSION OF RESULTS

Results from the seven soil vapor samples collected were compared to the residential and commercial regional screening levels (RSLs, US EPA, 2015) and the environmental screening levels (ESLs, Water Board, 2013) for soil gas. To compare to RSLs, the detected concentrations were compared to the calculated residential and commercial soil vapor screening levels derived by applying an attenuation factor to the indoor air RSLs, which assumes an exposure duration of 8 hours per day, 250 days per year for 25 years. The residential and commercial soil vapor screening levels were calculated by dividing the residential and commercial indoor air RSLs by attenuation factors (AF) of 0.001 and 0.0005, respectively (DTSC, 2011). The detected soil vapor concentrations of PCE were compared to the California-modified indoor air screening levels of 0.4 micrograms per cubic meter ($\mu g/m^3$) for residential exposure and 2 $\mu g/m^3$ for commercial exposure (EPA, 2013). The TCE detected concentrations were compared to calculated screening levels based on the residential and commercial RSLs of 0.21 $\mu g/m^3$ and 0.88 $\mu g/m^3$, respectively, and the TCE indoor air short-term response action levels of 2 $\mu g/m^3$ for residential exposure and 9 $\mu g/m^3$ for commercial exposure (EPA, 2013). The PCE and TCE soil vapor screening levels were calculated by dividing these residential and commercial indoor air screening levels by the same Attenuation Factors (AF=0.001 [residential] or AF=0.0005 [commercial]). The residential and commercial soil vapor ESLs were used for comparison for compounds where no indoor air RSLs are established.

Benzene was detected above laboratory reporting limits in 5 of 7 vapor samples analyzed (including one replicate sample), and exceeded its residential ESL of 42 $\mu g/m^3$ in 2 of 7 vapor samples analyzed (SV-2, 9 feet [69 $\mu g/m^3$] and SV-4, 4.75 feet [99 $\mu g/m^3$]). The benzene concentrations reported did not exceeded the commercial ESL (420 $\mu g/m^3$), the residential RSL (360 $\mu g/m^3$), or the commercial RSL (3,200 $\mu g/m^3$).

Tetrachloroethene (PCE) was detected above its residential ESL of 210 $\mu g/m^3$ and its residential Modified California Indoor Air Screening Level of 400 $\mu g/m^3$ in 2 of 7 soil vapor samples analyzed (720 $\mu g/m^3$ [SV-1, 4½ feet] and 740 $\mu g/m^3$ [SV-1 replicate, 4½ feet]). Note that these two PCE detections were detected from one soil vapor probe (SV-1), with one of the detections occurring in the replicate sample collected immediately after the SV-1 sample. The detected PCE concentrations did not exceed the commercial ESL (2,100 $\mu g/m^3$) or the commercial Modified California Indoor Air Screening Level (4,000 $\mu g/m^3$). PCE was not detected in the other soil vapor samples analyzed.

TPH as gasoline and other VOCs were detected but at concentrations below the respective residential and commercial screening levels.

In addition, laboratory analyses of soil vapor samples revealed: 1) oxygen at concentrations ranging between 2.6 and 18%; 2) methane was not detected; and 3) carbon dioxide ranging from 0.86 to 16%.

2.5 CONCLUSIONS

Based on these data, vapor intrusion mitigation measures do not appear required at this time for the planned commercial development. Contaminants were not detected at concentrations exceeding commercial screening levels. In addition, the concentrations of detected contaminants likely will decline with time due to on-going remediation efforts in the vicinity.

SECTION 3: LIMITATIONS

Cornerstone performed this investigation to support Calvano/CRP Mountain View Venture, LLC in evaluation of soil vapor quality at the Site. Calvano/CRP Mountain View Venture, LLC understands that the extent of soil vapor quality data obtained is based on the reasonable limits of time and budgetary constraints. In addition, the chemical information presented in this report can change over time and is only valid at the time of this investigation and for the locations sampled.

Cornerstone makes no warranty, expressed or implied, except that our services have been performed in accordance with the environmental principles generally accepted at this time and location.

SECTION 4: REFERENCES

CalEPA, 2005. *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties,* January 2005.

CalEPA, 2012. *Advisory – Active Soil Gas Investigation,* April 2012.

California OEHHA. September 23, 2010. Updated Soil Screening Numbers (http://www.oehha.org/risk/chhsltable.html#table1)

Environmental Protection Agency, December 3, 2013. Letter from US EPA to Water Board "EPA Region 9 Guidelines and Supplemental Information for Vapor Intrusion Evaluations at the South Bay National Priorities (NPL) Site"

San Francisco Bay, Regional Water Quality Control Board. Revised December 2013. Environmental Screening Levels. http://www.waterboards.ca.gov/sanfranciscobay/water/chemicalcontaminants.shtml/

U.S. EPA. Revised January 2015. *Regional Screening Level (RSL) Summary Table.* http://www.epa.gov/region9/superfund/prg/

CORNERSTONE EARTH GROUP

FIGURES



CORNERSTONE EARTH GROUP

Vicinity Map

1001 North Shoreline Boulevard
Mountain View, CA

Project Number	693-1-2
Figure Number	Figure 1
Date	June 2015
Drawn By	FLL, RRN

Approximate
Site Boundary

SHORELINE BOULEVARD

LINDA VISTA AVENUE

TERRA BELLA

SV-1

SV-2

SV-3

SV-4

LOBBY

BUILDING
3 STORIES
ROOF

Proposed 4-Story
Office Building

Legend

Approximate location of dual depth soil vapor probe (SV)

N

0 60 120

APPROXIMATE SCALE (FEET)

Base by Google Earth, dated 4/15/2013
Overlay by Calvano Development, dated 11-12-13

Project Number	693-1-2
Figure Number	Figure 2
Drawn By	FLL, RRN
Date	June 2015

Site Plan

1001 North Shoreline Boulevard
Mountain View, CA

CORNERSTONE EARTH GROUP

CORNERSTONE EARTH GROUP

DATA TABLES

CORNERSTONE EARTH GROUP

Table 1. Analytical Results of Selected Soil Vapor Samples for Volatile Organic Compounds (VOCs)
(Concentrations in µg/m³)

Boring ID	Sample ID	Date	Depth (feet)	Benzene	Toluene	Ethylbenzene	MTBE	TPHg	1,1-DCA	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Bromofluorobenzene	4-Ethyl Toluene	Acetone	Carbon Disulfide	Chloroform	cis-1,2-dichloroethene	Cyclohexane	Freon 113	Heptane	Hexane	2-Propanol	o-xylene	PCE	TCE	Tetrahydrofuran
SV-1	SV-1D4.5	5/15/2015	4.5	<3.8	<4.5	<5.2	<4.3	245	<4.8	<5.8	<5.8	106	<5.8	<28	<15	<5.8	<4.7	<4.1	<9.1	<4.9	<4.2	<12	<5.2	720	91	<3.5
	SV-1D4.5R*	5/15/2015	4.5	4.6	5.2	<5.0	<4.2	---	<4.7	<5.7	<5.7	99	<5.7	<28	<14	<5.7	<4.6	<4.0	<8.9	<4.8	<4.1	39	<5.0	740	91	<3.4
SV-2	SV-2D3.75	5/14/2015	3.75	8.6	<4.5	<5.2	<4.3	245	<4.8	<5.8	<5.8	98	<5.8	<28	18	<5.8	<4.7	<4.1	11	<4.9	<4.2	<12	<5.2	<8.1	<6.4	5.7
	SV-2D9	5/14/2015	9	69	<24	<28	54	1,309	<26	32	<32	96	<32	200	3,600	<31	34	90	<49	57	130	<63	<28	<44	<35	<19
SV-3	SV-3D5	5/14/2015	5	33	53	11	<4.8	270	<5.4	26	8.4	101	17	42	43	41	<5.2	<4.6	19	11	5.6	<13	19	<9.0	<7.1	11
	SV-3D9.25	5/14/2015	9.25	<22	<26	<30	150	1,431	48	<34	<34	99	<34	300	<87	<34	28	<24	<54	<29	<25	200	<30	<47	<38	31
SV-4	SV-4D4.75	5/15/2015	4.75	99	22	<24	<20	1,143	<22	<27	<27	102	<27	220	300	66	<22	<19	<42	26	41	<54	<24	<38	<30	18
	TRAVEL BLANK	5/15/2015	NA	<1.6	<1.9	<2.2	<1.8	---	<2.0	<2.4	<2.4	104	<2.4	<12	<6.2	<2.4	<2.0	<1.7	<3.8	<2.0	<1.8	<4.9	<2.2	<3.4	<2.7	<1.5
	SV-1D9.25 (IPA)[1]	5/15/2015	NA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	200,000	---	---	---	---
Residential ESL[2]				42	160,000	490	4,700	300,000	760	NE	NE	NE	NE	16,000,000	NE	230	NE	NE	NE	NE	NE	NE	NE	210	300	NE
Commercial ESL[2]				420	1,300,000	4,900	47,000	2,500,000	7,700	NE	NE	NE	NE	140,000,000	NE	2,300	NE	NE	NE	NE	NE	NE	NE	2,100	3,000	NE
Residential RSL (Indoor Air)[3]				0.36	520	1.1	NE	11	1.8	NE	NE	NE	NE	3,200	NE	0.12	NE	NE	NE	NE	NE	NE	10	0.4 [4]	0.21 (2)[5]	NE
Residential RSL (Soil Vapor - AF = 0.001)[6]				360	520,000	1,100	NE	11,000	1,800	NE	NE	NE	NE	3,200,000	NE	120	NE	NE	NE	NE	NE	NE	10,000	400 [4]	210 (2,000)[5]	NE
Commercial RSL (Indoor Air)[3]				1.6	2,200	4.9	NE	47	7.7	NE	NE	NE	NE	14,000	NE	0.53	NE	NE	NE	NE	NE	NE	44	2 [4]	0.88 (2)[5]	NE
Commercial RSL (Soil Vapor - AF = 0.0005)[7]				3,200	4,400,000	9,800	NE	94,000	15,400	NE	NE	NE	NE	28,000,000	NE	1060	NE	NE	NE	NE	NE	NE	88,000	4,000 [4]	1,760 (14,000)[5]	NE

* Sample SV-1D4.5R is replicate sample of SV-1D4.5
1 Sample collected from shroud atmosphere for purpose of leak detection
2 Environmental Screening Level (ESL), RWQCB, San Francisco Bay Region - December 2013.
3 Regional Screening Level (RSL), USEPA Region 9 - January 2015. Values in this row are RSLs for indoor air and are not intended for direct comparison to soil gas data; instead these values are divided by an attenuation factor (AF) to derive soil gas RSLs (See notes 6 and 7)
4 California Modified Indoor Air Screening Levels, "EPA Region 9 Guidelines and Supplemental Information Needed for Vapor Intrusion Evaluations at the South Bay National Priorities List (NPL) Sites," US EPA to Water Board - December
5 California Modified Indoor Air Screening Levels, "EPA Region 9 Guidelines and Supplemental Information Needed for Vapor Intrusion Evaluations at the South Bay National Priorities List (NPL) Sites," US EPA to Water Board - December 2013; Short-Term Action Level assumes a 10 hour working day
6 Calculated "contaminant source" RSL for residential, new development using attenuation factor of 0.001 (DTSC, 2011)
7 Calculated "contaminant source" RSL for commercial, new development using attenuation factor of 0.0005 (DTSC, 2011)
< Not detected at or above laboratory reporting limit
NE Not Established
--- Not Analyzed
BOLD Concentration exceeds commercial screening level

CORNERSTONE EARTH GROUP

Table 2. Analytical Results of Selected Samples for Fixed Gases
(Concentrations in %)

Boring ID	Sample ID	Date	Depth (feet)	Carbon Dioxide	Methane	Oxygen
SV-1	SV-1D4.5	5/15/2015	4.5	16	<0.00024	2.6
SV-2	SV-2D3.75	5/14/2015	3.75	10	<0.00024	11
	SV-2D9	5/14/2015	9	2.8	<0.0013	7.3
SV-3	SV-3D5	5/14/2015	5	0.93	<0.00026	18
	SV-3D9.25	5/14/2015	9.25	1.5	<0.0014	8.8
SV-4	SV-4D4.75	5/15/2015	4.75	0.86	<0.0011	12

< Not detected at or above laboratory reporting limit

APPENDIX A –EXPLORATORY BORING LOGS

Soil Vapor Well SV-1

CORNERSTONE EARTH GROUP

PROJECT NAME 1001 N Shoreline Blvd
PROJECT NUMBER 693-1-2
PROJECT LOCATION 1001 Shoreline Blvd, Mountain View

DATE STARTED 5/11/15 **DATE COMPLETED** 5/11/15
GROUND ELEVATION _____ **BORING DEPTH** 9.5 ft.
DRILLING CONTRACTOR Penecore
BORING DIAMETER 0.19 ft
DRILLING METHOD Direct Push
GROUND WATER LEVELS:
LOGGED BY R. Tinline
AT TIME OF DRILLING Not Encountered
PERMIT NUMBER _____ **INSPECTOR** _____
AT END OF DRILLING Not Encountered

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	Sample Type Percent Recovery (%)	OVM Reading (ppm)	Odors or Discoloration	Well Details
	0.0		3 inches asphalt concrete				(2) ¼" dia. Hi Purity Stainless Steel Tubing with Swagelok Valves
			Sand with Gravel (GW) dry, light brown, 30% angular gravel to ½ inch Ø		3.5		Hydrated Bentonite slurry seal 0-3.75'
	2.5		**Lean Clay (CL)** dry, medium stiff, dark gray, moderate plastcicy, >90% fines		0.2		2.25 inch diameter borehole'
			minor fine rootlets and light gray weathering, trace gravel with orange-red oxidation				Dry Bentonite seal 3.75-4.25'
	5.0		light gray alteration within dark gray clay		0		Monterey #3 Sand 4.25-5' with Stainless Steel Porous Vapor Tip @ 4.75'
					1.9		Dry Bentonite seal 5-5.25'
			dry to moist				Hydrated Bentonite slurry seal 5.25-8.5'
	7.5				4.2		
					4.1		Dry Bentonite seal 8.5-9'
			Silty Sand (SM) very moist, light gray, >80% fine sand, up to 1 inch Ø gravel		0		Monterey #3 Sand 9-9.5' with Stainless Steel Porous Vapor Tip @ 9.25'
	10.0		Bottom of Boring at 9.5 feet.				

CORNERSTONE GE WELL LOG - CORNERSTONE 0812.GDT - 6/12/15 12:20 - P:\DRAFTING\GINT FILES\693-1-2 SHORELINE BLVD.GPJ

Soil Vapor Well SV-2

CORNERSTONE EARTH GROUP

PROJECT NAME 1001 N Shoreline Blvd
PROJECT NUMBER 693-1-2
PROJECT LOCATION 1001 Shoreline Blvd, Mountain View

DATE STARTED 5/11/15 **DATE COMPLETED** 5/11/15
GROUND ELEVATION _____ **BORING DEPTH** 9.25 ft.
DRILLING CONTRACTOR Penecore
BORING DIAMETER 0.19 ft
DRILLING METHOD Direct Push
GROUND WATER LEVELS:
LOGGED BY R. Tinline
▽ **AT TIME OF DRILLING** Not Encountered
PERMIT NUMBER _____ **INSPECTOR** _____
▼ **AT END OF DRILLING** Not Encountered

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	Sample Type Percent Recovery (%)	OVM Reading (ppm)	Odors or Discoloration	Well Details
	0.0		Gravel Sand base material dry				(2) ¼" dia. Hi Purity Stainless Steel Tubing withSwagelok Valves Hydrated Bentonite slurry seal 0-3'
			Lean Clay (CL) dry, medium stiff to stiff, dark gray mottled with light brown, minor weathering and light gray alteration from 3-4.5 ft.		4.0		2.25 inch diameter borehole
	2.5				3.5		Dry Bentonite seal 3-3.25' Monterey #3 Sand 3.25-4' with Stainless Steel Porous Vapor Tip @ 3.75'
	5.0		olive gray with minor light gray to white alteration ribbons and trace fine rootlets		0.2		
			Dry to moist		0.8		Hydrated Bentonite slurry seal 4-8.25'
	7.5				1		Dry Bentonite seal 8.25-8.5' Monterey #3 Sand 8.5-9.25' with Stainless Steel Porous Vapor Tip @ 8.75'
			moist, soft with minor angular coarse sand and gravel with fine rootlets		0		
			Bottom of Boring at 9.3 feet.				
	10.0						

CORNERSTONE GE WELL LOG - CORNERSTONE 0812.GDT - 6/12/15 12:20 - P:\DRAFTING\GINT FILES\693-1-2 SHORELINE BLVD.GPJ

Soil Vapor Well SV-3

CORNERSTONE EARTH GROUP

PROJECT NAME 1001 N Shoreline Blvd
PROJECT NUMBER 693-1-2
PROJECT LOCATION 1001 Shoreline Blvd, Mountain View

DATE STARTED 5/11/15 **DATE COMPLETED** 5/11/15
GROUND ELEVATION _____ **BORING DEPTH** 9.5 ft.
DRILLING CONTRACTOR Penecore
BORING DIAMETER 0.19 ft
DRILLING METHOD Direct Push
GROUND WATER LEVELS:
LOGGED BY R. Tinline
AT TIME OF DRILLING Not Encountered
PERMIT NUMBER _____ **INSPECTOR** _____
AT END OF DRILLING Not Encountered

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	Sample Type / Percent Recovery (%)	OVM Reading (ppm)	Odors or Discoloration	Well Details
	0.0		**Lean Clay (CL)** dry, stiff, light brown, >90% fines, <10% finer sand		.1		(2) ¼" dia. Hi Purity Stainless Steel Tubing withSwagelok Valves Hydrated Bentonite slurry seal 0-4'
	2.5		medium stiff, olive gray, medium to high plasticity		.2		2.25 inch diameter borehole Dry Bentonite seal 4-4.5'
	5.0		dry to moist, light gray, minor white to light gray alteration ribbons		0		Monterey #3 Sand 4.5-5.25' with Stainless Steel Porous Vapor Tip @ 4.75'
	7.5				.1		Hydrated Bentonite slurry seal 5.25-8.5' Dry Bentonite seal 8.5-8.75'
			moist, soft very light gray to greenish gray, altered clay with minor rounded coarse sand		0		Monterey #3 Sand 8.75-9.5' with Stainless Steel Porous Vapor Tip @ 9.25'
	10.0		Bottom of Boring at 9.5 feet.				

CORNERSTONE GE WELL LOG - CORNERSTONE 0812.GDT - 6/12/15 12:20 - P:\DRAFTING\GINT FILES\693-1-2 SHORELINE BLVD.GPJ

Soil Vapor Well SV-4

CORNERSTONE EARTH GROUP

PROJECT NAME 1001 N Shoreline Blvd
PROJECT NUMBER 693-1-2
PROJECT LOCATION 1001 Shoreline Blvd, Mountain View

DATE STARTED 5/11/15 **DATE COMPLETED** 5/11/15
GROUND ELEVATION _____ **BORING DEPTH** 9.75 ft.
DRILLING CONTRACTOR Penecore
BORING DIAMETER 0.19 ft
DRILLING METHOD Direct Push
GROUND WATER LEVELS:
LOGGED BY R. Tinline
AT TIME OF DRILLING Not Encountered
PERMIT NUMBER _____ **INSPECTOR** _____
AT END OF DRILLING Not Encountered

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	Sample Type Percent Recovery (%)	OVM Reading (ppm)	Odors or Discoloration	Well Details
	0.0		3 inches asphalt concrete				
			Lean Clay (CL) dry, medium stiff, light brown grading to olive gray, >85-90% fines, <10-15% fine sand, medium to high plasticity		.5		(2) ¼" dia. Hi Purity Stainless Steel Tubing withSwagelok Valves; Hydrated Bentonite slurry seal 0-4'
	2.5		dry to moist		.3		2.25 inch diameter borehole
			light gray, increased silt content				Dry Bentonite seal 4-4.5'; Monterey #3 Sand 4.5-5.25' with Stainless Steel Porous Vapor Tip @ 4.75'
	5.0				.4		
			dry to moist				Hydrated Bentonite slurry seal 5.25-9'
	7.5				.3		
			moist, light gray brown with increased silt and sand content with minor coarse sand				Dry Bentonite seal 9-9.25'; Monterey #3 Sand 9.25-9.75' with Stainless Steel Porous Vapor Tip @ 9.5'
	10.0		Bottom of Boring at 9.8 feet.		.2		

CORNERSTONE GE WELL LOG - CORNERSTONE 0812.GDT - 6/12/15 12:20 - P:\DRAFTING\GINT FILES\693-1-2 SHORELINE BLVD.GPJ

APPENDIX B – LABORATORY ANALYTICAL REPORTS

eurofins | Air Toxics

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Ron Helm
Collected by: (Print and Sign) Ross Tinline for RH
Company Cornerstone Earth Gp Email rhelm@cornerstoneearth.com
Address 1259 Oakmead Pkwy City Sunnyvale State CA Zip 94085
Phone 408 245 4600 Fax 408 245 4620

Project Info:
P.O. #
Project # 693-1-2
Project Name 1001 N. Shoreline Blvd

Turn Around Time:
☒ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	FC #
01A	SV-3D5	37413	5-14-15	1034 – 1102	VOCs by TO15	-28.82	-5.28			646
02A	SV-3D9.25	12031	5-14-15	1128 – 1140	TPHg by TO3	-28.80	-25.23			478
03A	SV-2D3.75	11647	5-14-15	1230 – 1236	Fixed gases (O_2,	-29.90	-5.00			0137
04A	SV-2D9	13554	5-14-15	1451 – 1508	CO_2 & Methane)	-29.05	-25.01			20377
05A	SV-1D4.5	37310	5-15-15	0949 – 0955	↓	-28.96	-5.00			0615
06A	SV-1D4.5 R	37313	5-15-15	1002 – 1008	*	-28.96	-5.00			0615
07A	SV-4D4.75	37406	5-15-15	1231 – 1243	↓	-28.75	-24.27			0869
08A	TRAVEL BLANK	8001	5-15-15	←	*	~~-27~~	~~-5~~			~~K7~~ 00935
09A	SV-1D9.2.5 (IPA)	3599	5-15-15	1349 – 1357	2 propanol only (TO15 5020)	-27	-5			00935

on 5/20/15

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
for RH	5-15-15 1505	FedEx	5-15-15 1505
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
		[illegible]	5/18/15 1400
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:
* analyze replicate (SV-1D4.5R) and travel blank for VOCs by TO15 only.

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx		NA	Good	Yes No None	1505316

Form 1293 rev.11

eurofins | Air Toxics

5/31/2015

Mr. Ron Helm
Cornerstone Earth Group
1259 Oakmead Parkway

Sunnyvale CA 94085

Project Name: 1001 N. Shoreline Blvd
Project #: 693-1-2
Workorder #: 1505316A

Dear Mr. Ron Helm

The following report includes the data for the above referenced project for sample(s) received on 5/18/2015 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kyle Vagadori

Project Manager

eurofins | Air Toxics

WORK ORDER #: 1505316A

Work Order Summary

CLIENT:	Mr. Ron Helm Cornerstone Earth Group 1259 Oakmead Parkway Sunnyvale, CA 94085	**BILL TO:**	Mr. Ron Helm Cornerstone Earth Group 1259 Oakmead Parkway Sunnyvale, CA 94085
PHONE:	408-245-4600	**P.O. #**	
FAX:	408-245-4620	**PROJECT #**	693-1-2 1001 N. Shoreline Blvd
DATE RECEIVED:	05/18/2015	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	05/31/2015		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SV-3D5	TO-15	6.9 "Hg	15.3 psi
02A	SV-3D9.25	TO-15	25.7 "Hg	14.7 psi
03A	SV-2D3.75	TO-15	4.7 "Hg	14.8 psi
04A	SV-2D9	TO-15	25.3 "Hg	15.1 psi
05A	SV-1D4.5	TO-15	4.5 "Hg	15 psi
06A	SV-1D4.5R	TO-15	4.3 "Hg	14.7 psi
07A	SV-4D4.75	TO-15	24.5 "Hg	15.2 psi
08A	TRAVEL BLANK	TO-15	29.2 "Hg	15 psi
09A	Lab Blank	TO-15	NA	NA
10A	CCV	TO-15	NA	NA
11A	LCS	TO-15	NA	NA
11AA	LCSD	TO-15	NA	NA

CERTIFIED BY:  DATE: 05/31/15

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
EPA Method TO-15
Cornerstone Earth Group
Workorder# 1505316A

Eight 1 Liter Summa Canister samples were received on May 18, 2015. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

Samples SV-3D9.25, SV-2D9 and SV-4D4.75 were received with significant vacuum remaining in the canister. The residual canister vacuum resulted in elevated reporting limits.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SV-3D5

Lab ID#: 1505316A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 113	1.3	2.4	10	19
Acetone	13	18	31	42
Carbon Disulfide	5.3	14	16	43
Hexane	1.3	1.6	4.7	5.6
Tetrahydrofuran	1.3	3.7	3.9	11
Chloroform	1.3	8.4	6.5	41
Benzene	1.3	10	4.2	33
Heptane	1.3	2.6	5.4	11
Toluene	1.3	14	5.0	53
Ethyl Benzene	1.3	2.5	5.8	11
m,p-Xylene	1.3	9.2	5.8	40
o-Xylene	1.3	4.4	5.8	19
4-Ethyltoluene	1.3	3.4	6.5	17
1,3,5-Trimethylbenzene	1.3	1.7	6.5	8.4
1,2,4-Trimethylbenzene	1.3	5.3	6.5	26

Client Sample ID: SV-3D9.25

Lab ID#: 1505316A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	28	54	53	100
Acetone	70	120	170	300
2-Propanol	28	82	69	200
Methyl tert-butyl ether	7.0	42	25	150
1,1-Dichloroethane	7.0	12	28	48
cis-1,2-Dichloroethene	7.0	7.0	28	28
Tetrahydrofuran	7.0	11	21	31

Client Sample ID: SV-2D3.75

Lab ID#: 1505316A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	4.8	220	9.0	410

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SV-2D3.75

Lab ID#: 1505316A-03A

Freon 113	1.2	1.4	9.1	11
Carbon Disulfide	4.8	5.7	15	18
Tetrahydrofuran	1.2	1.9	3.5	5.7
Benzene	1.2	2.7	3.8	8.6

Client Sample ID: SV-2D9

Lab ID#: 1505316A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	64	84	150	200
Carbon Disulfide	26	1100	80	3600
Methyl tert-butyl ether	6.4	15	23	54
Hexane	6.4	36	23	130
cis-1,2-Dichloroethene	6.4	8.6	26	34
Cyclohexane	6.4	26	22	90
Benzene	6.4	22	21	69
Heptane	6.4	14	26	57
1,2,4-Trimethylbenzene	6.4	6.4	32	32

Client Sample ID: SV-1D4.5

Lab ID#: 1505316A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	1.2	17	6.4	91
Tetrachloroethene	1.2	110	8.1	720

Client Sample ID: SV-1D4.5R

Lab ID#: 1505316A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	4.7	16	11	39
Benzene	1.2	1.4	3.7	4.6
Trichloroethene	1.2	17	6.3	91
Toluene	1.2	1.4	4.4	5.2

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SV-1D4.5R

Lab ID#: 1505316A-06A

Tetrachloroethene	1.2	110	7.9	740

Client Sample ID: SV-4D4.75

Lab ID#: 1505316A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	56	94	130	220
Carbon Disulfide	22	96	69	300
Hexane	5.6	12	20	41
Tetrahydrofuran	5.6	6.1	16	18
Chloroform	5.6	14	27	66
Benzene	5.6	31	18	99
Heptane	5.6	6.5	23	26
Toluene	5.6	5.9	21	22

Client Sample ID: TRAVEL BLANK

Lab ID#: 1505316A-08A

No Detections Were Found.

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Client Sample ID: SV-3D5

Lab ID#: 1505316A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p052812**	**Date of Collection:**	**5/14/15 11:02:00 AM**
Dil. Factor:	**2.65**	**Date of Analysis:**	**5/28/15 04:09 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	Not Detected	6.6	Not Detected
Freon 114	1.3	Not Detected	9.3	Not Detected
Chloromethane	13	Not Detected	27	Not Detected
Vinyl Chloride	1.3	Not Detected	3.4	Not Detected
1,3-Butadiene	1.3	Not Detected	2.9	Not Detected
Bromomethane	13	Not Detected	51	Not Detected
Chloroethane	5.3	Not Detected	14	Not Detected
Freon 11	1.3	Not Detected	7.4	Not Detected
Ethanol	5.3	Not Detected	10	Not Detected
Freon 113	1.3	2.4	10	19
1,1-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Acetone	13	18	31	42
2-Propanol	5.3	Not Detected	13	Not Detected
Carbon Disulfide	5.3	14	16	43
3-Chloropropene	5.3	Not Detected	16	Not Detected
Methylene Chloride	13	Not Detected	46	Not Detected
Methyl tert-butyl ether	1.3	Not Detected	4.8	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Hexane	1.3	1.6	4.7	5.6
1,1-Dichloroethane	1.3	Not Detected	5.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.3	Not Detected	16	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Tetrahydrofuran	1.3	3.7	3.9	11
Chloroform	1.3	8.4	6.5	41
1,1,1-Trichloroethane	1.3	Not Detected	7.2	Not Detected
Cyclohexane	1.3	Not Detected	4.6	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.3	Not Detected
2,2,4-Trimethylpentane	1.3	Not Detected	6.2	Not Detected
Benzene	1.3	10	4.2	33
1,2-Dichloroethane	1.3	Not Detected	5.4	Not Detected
Heptane	1.3	2.6	5.4	11
Trichloroethene	1.3	Not Detected	7.1	Not Detected
1,2-Dichloropropane	1.3	Not Detected	6.1	Not Detected
1,4-Dioxane	5.3	Not Detected	19	Not Detected
Bromodichloromethane	1.3	Not Detected	8.9	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	6.0	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.4	Not Detected
Toluene	1.3	14	5.0	53
trans-1,3-Dichloropropene	1.3	Not Detected	6.0	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	7.2	Not Detected
Tetrachloroethene	1.3	Not Detected	9.0	Not Detected
2-Hexanone	5.3	Not Detected	22	Not Detected

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Client Sample ID: SV-3D5

Lab ID#: 1505316A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p052812**	**Date of Collection:**	**5/14/15 11:02:00 AM**
Dil. Factor:	**2.65**	**Date of Analysis:**	**5/28/15 04:09 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	10	Not Detected
Chlorobenzene	1.3	Not Detected	6.1	Not Detected
Ethyl Benzene	1.3	2.5	5.8	11
m,p-Xylene	1.3	9.2	5.8	40
o-Xylene	1.3	4.4	5.8	19
Styrene	1.3	Not Detected	5.6	Not Detected
Bromoform	1.3	Not Detected	14	Not Detected
Cumene	1.3	Not Detected	6.5	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	9.1	Not Detected
Propylbenzene	1.3	Not Detected	6.5	Not Detected
4-Ethyltoluene	1.3	3.4	6.5	17
1,3,5-Trimethylbenzene	1.3	1.7	6.5	8.4
1,2,4-Trimethylbenzene	1.3	5.3	6.5	26
1,3-Dichlorobenzene	1.3	Not Detected	8.0	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	8.0	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	6.8	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	8.0	Not Detected
1,2,4-Trichlorobenzene	5.3	Not Detected	39	Not Detected
Hexachlorobutadiene	5.3	Not Detected	56	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	108	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: SV-3D9.25

Lab ID#: 1505316A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p052813**	**Date of Collection:**	**5/14/15 11:40:00 AM**
Dil. Factor:	**14.0**	**Date of Analysis:**	**5/28/15 04:52 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	7.0	Not Detected	35	Not Detected
Freon 114	7.0	Not Detected	49	Not Detected
Chloromethane	70	Not Detected	140	Not Detected
Vinyl Chloride	7.0	Not Detected	18	Not Detected
1,3-Butadiene	7.0	Not Detected	15	Not Detected
Bromomethane	70	Not Detected	270	Not Detected
Chloroethane	28	Not Detected	74	Not Detected
Freon 11	7.0	Not Detected	39	Not Detected
Ethanol	28	54	53	100
Freon 113	7.0	Not Detected	54	Not Detected
1,1-Dichloroethene	7.0	Not Detected	28	Not Detected
Acetone	70	120	170	300
2-Propanol	28	82	69	200
Carbon Disulfide	28	Not Detected	87	Not Detected
3-Chloropropene	28	Not Detected	88	Not Detected
Methylene Chloride	70	Not Detected	240	Not Detected
Methyl tert-butyl ether	7.0	42	25	150
trans-1,2-Dichloroethene	7.0	Not Detected	28	Not Detected
Hexane	7.0	Not Detected	25	Not Detected
1,1-Dichloroethane	7.0	12	28	48
2-Butanone (Methyl Ethyl Ketone)	28	Not Detected	82	Not Detected
cis-1,2-Dichloroethene	7.0	7.0	28	28
Tetrahydrofuran	7.0	11	21	31
Chloroform	7.0	Not Detected	34	Not Detected
1,1,1-Trichloroethane	7.0	Not Detected	38	Not Detected
Cyclohexane	7.0	Not Detected	24	Not Detected
Carbon Tetrachloride	7.0	Not Detected	44	Not Detected
2,2,4-Trimethylpentane	7.0	Not Detected	33	Not Detected
Benzene	7.0	Not Detected	22	Not Detected
1,2-Dichloroethane	7.0	Not Detected	28	Not Detected
Heptane	7.0	Not Detected	29	Not Detected
Trichloroethene	7.0	Not Detected	38	Not Detected
1,2-Dichloropropane	7.0	Not Detected	32	Not Detected
1,4-Dioxane	28	Not Detected	100	Not Detected
Bromodichloromethane	7.0	Not Detected	47	Not Detected
cis-1,3-Dichloropropene	7.0	Not Detected	32	Not Detected
4-Methyl-2-pentanone	7.0	Not Detected	29	Not Detected
Toluene	7.0	Not Detected	26	Not Detected
trans-1,3-Dichloropropene	7.0	Not Detected	32	Not Detected
1,1,2-Trichloroethane	7.0	Not Detected	38	Not Detected
Tetrachloroethene	7.0	Not Detected	47	Not Detected
2-Hexanone	28	Not Detected	110	Not Detected

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Client Sample ID: SV-3D9.25

Lab ID#: 1505316A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p052813**	**Date of Collection:**	**5/14/15 11:40:00 AM**
Dil. Factor:	**14.0**	**Date of Analysis:**	**5/28/15 04:52 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	7.0	Not Detected	60	Not Detected
1,2-Dibromoethane (EDB)	7.0	Not Detected	54	Not Detected
Chlorobenzene	7.0	Not Detected	32	Not Detected
Ethyl Benzene	7.0	Not Detected	30	Not Detected
m,p-Xylene	7.0	Not Detected	30	Not Detected
o-Xylene	7.0	Not Detected	30	Not Detected
Styrene	7.0	Not Detected	30	Not Detected
Bromoform	7.0	Not Detected	72	Not Detected
Cumene	7.0	Not Detected	34	Not Detected
1,1,2,2-Tetrachloroethane	7.0	Not Detected	48	Not Detected
Propylbenzene	7.0	Not Detected	34	Not Detected
4-Ethyltoluene	7.0	Not Detected	34	Not Detected
1,3,5-Trimethylbenzene	7.0	Not Detected	34	Not Detected
1,2,4-Trimethylbenzene	7.0	Not Detected	34	Not Detected
1,3-Dichlorobenzene	7.0	Not Detected	42	Not Detected
1,4-Dichlorobenzene	7.0	Not Detected	42	Not Detected
alpha-Chlorotoluene	7.0	Not Detected	36	Not Detected
1,2-Dichlorobenzene	7.0	Not Detected	42	Not Detected
1,2,4-Trichlorobenzene	28	Not Detected	210	Not Detected
Hexachlorobutadiene	28	Not Detected	300	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: SV-2D3.75

Lab ID#: 1505316A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p052814**	**Date of Collection:**	**5/14/15 12:36:00 PM**
Dil. Factor:	**2.38**	**Date of Analysis:**	**5/28/15 05:25 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.9	Not Detected
Freon 114	1.2	Not Detected	8.3	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	12	Not Detected	46	Not Detected
Chloroethane	4.8	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.7	Not Detected
Ethanol	4.8	220	9.0	410
Freon 113	1.2	1.4	9.1	11
1,1-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Acetone	12	Not Detected	28	Not Detected
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	4.8	5.7	15	18
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	41	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.3	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Tetrahydrofuran	1.2	1.9	3.5	5.7
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Cyclohexane	1.2	Not Detected	4.1	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.5	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.6	Not Detected
Benzene	1.2	2.7	3.8	8.6
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Heptane	1.2	Not Detected	4.9	Not Detected
Trichloroethene	1.2	Not Detected	6.4	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.0	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	Not Detected	8.1	Not Detected
2-Hexanone	4.8	Not Detected	19	Not Detected

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Client Sample ID: SV-2D3.75

Lab ID#: 1505316A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p052814**	**Date of Collection:**	**5/14/15 12:36:00 PM**
Dil. Factor:	**2.38**	**Date of Analysis:**	**5/28/15 05:25 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.1	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Styrene	1.2	Not Detected	5.1	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.8	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
Propylbenzene	1.2	Not Detected	5.8	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	35	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: SV-2D9

Lab ID#: 1505316A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p052815**	**Date of Collection:**	**5/14/15 3:08:00 PM**
Dil. Factor:	**12.9**	**Date of Analysis:**	**5/28/15 05:58 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	6.4	Not Detected	32	Not Detected
Freon 114	6.4	Not Detected	45	Not Detected
Chloromethane	64	Not Detected	130	Not Detected
Vinyl Chloride	6.4	Not Detected	16	Not Detected
1,3-Butadiene	6.4	Not Detected	14	Not Detected
Bromomethane	64	Not Detected	250	Not Detected
Chloroethane	26	Not Detected	68	Not Detected
Freon 11	6.4	Not Detected	36	Not Detected
Ethanol	26	Not Detected	49	Not Detected
Freon 113	6.4	Not Detected	49	Not Detected
1,1-Dichloroethene	6.4	Not Detected	26	Not Detected
Acetone	64	84	150	200
2-Propanol	26	Not Detected	63	Not Detected
Carbon Disulfide	26	1100	80	3600
3-Chloropropene	26	Not Detected	81	Not Detected
Methylene Chloride	64	Not Detected	220	Not Detected
Methyl tert-butyl ether	6.4	15	23	54
trans-1,2-Dichloroethene	6.4	Not Detected	26	Not Detected
Hexane	6.4	36	23	130
1,1-Dichloroethane	6.4	Not Detected	26	Not Detected
2-Butanone (Methyl Ethyl Ketone)	26	Not Detected	76	Not Detected
cis-1,2-Dichloroethene	6.4	8.6	26	34
Tetrahydrofuran	6.4	Not Detected	19	Not Detected
Chloroform	6.4	Not Detected	31	Not Detected
1,1,1-Trichloroethane	6.4	Not Detected	35	Not Detected
Cyclohexane	6.4	26	22	90
Carbon Tetrachloride	6.4	Not Detected	40	Not Detected
2,2,4-Trimethylpentane	6.4	Not Detected	30	Not Detected
Benzene	6.4	22	21	69
1,2-Dichloroethane	6.4	Not Detected	26	Not Detected
Heptane	6.4	14	26	57
Trichloroethene	6.4	Not Detected	35	Not Detected
1,2-Dichloropropane	6.4	Not Detected	30	Not Detected
1,4-Dioxane	26	Not Detected	93	Not Detected
Bromodichloromethane	6.4	Not Detected	43	Not Detected
cis-1,3-Dichloropropene	6.4	Not Detected	29	Not Detected
4-Methyl-2-pentanone	6.4	Not Detected	26	Not Detected
Toluene	6.4	Not Detected	24	Not Detected
trans-1,3-Dichloropropene	6.4	Not Detected	29	Not Detected
1,1,2-Trichloroethane	6.4	Not Detected	35	Not Detected
Tetrachloroethene	6.4	Not Detected	44	Not Detected
2-Hexanone	26	Not Detected	100	Not Detected

eurofins | Air Toxics

Client Sample ID: SV-2D9

Lab ID#: 1505316A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p052815**	**Date of Collection:**	**5/14/15 3:08:00 PM**
Dil. Factor:	**12.9**	**Date of Analysis:**	**5/28/15 05:58 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	6.4	Not Detected	55	Not Detected
1,2-Dibromoethane (EDB)	6.4	Not Detected	50	Not Detected
Chlorobenzene	6.4	Not Detected	30	Not Detected
Ethyl Benzene	6.4	Not Detected	28	Not Detected
m,p-Xylene	6.4	Not Detected	28	Not Detected
o-Xylene	6.4	Not Detected	28	Not Detected
Styrene	6.4	Not Detected	27	Not Detected
Bromoform	6.4	Not Detected	67	Not Detected
Cumene	6.4	Not Detected	32	Not Detected
1,1,2,2-Tetrachloroethane	6.4	Not Detected	44	Not Detected
Propylbenzene	6.4	Not Detected	32	Not Detected
4-Ethyltoluene	6.4	Not Detected	32	Not Detected
1,3,5-Trimethylbenzene	6.4	Not Detected	32	Not Detected
1,2,4-Trimethylbenzene	6.4	6.4	32	32
1,3-Dichlorobenzene	6.4	Not Detected	39	Not Detected
1,4-Dichlorobenzene	6.4	Not Detected	39	Not Detected
alpha-Chlorotoluene	6.4	Not Detected	33	Not Detected
1,2-Dichlorobenzene	6.4	Not Detected	39	Not Detected
1,2,4-Trichlorobenzene	26	Not Detected	190	Not Detected
Hexachlorobutadiene	26	Not Detected	280	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: SV-1D4.5

Lab ID#: 1505316A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p052816**	**Date of Collection:**	**5/15/15 9:55:00 AM**
Dil. Factor:	**2.38**	**Date of Analysis:**	**5/28/15 06:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.9	Not Detected
Freon 114	1.2	Not Detected	8.3	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	12	Not Detected	46	Not Detected
Chloroethane	4.8	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.7	Not Detected
Ethanol	4.8	Not Detected	9.0	Not Detected
Freon 113	1.2	Not Detected	9.1	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Acetone	12	Not Detected	28	Not Detected
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	41	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.3	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.5	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Cyclohexane	1.2	Not Detected	4.1	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.5	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.6	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Heptane	1.2	Not Detected	4.9	Not Detected
Trichloroethene	1.2	17	6.4	91
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.0	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	110	8.1	720
2-Hexanone	4.8	Not Detected	19	Not Detected

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Client Sample ID: SV-1D4.5

Lab ID#: 1505316A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p052816**	**Date of Collection:**	**5/15/15 9:55:00 AM**
Dil. Factor:	**2.38**	**Date of Analysis:**	**5/28/15 06:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.1	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Styrene	1.2	Not Detected	5.1	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.8	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
Propylbenzene	1.2	Not Detected	5.8	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	35	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: SV-1D4.5R

Lab ID#: 1505316A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p052817**	**Date of Collection:**	**5/15/15 10:08:00 AM**
Dil. Factor:	**2.33**	**Date of Analysis:**	**5/28/15 07:09 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.8	Not Detected
Freon 114	1.2	Not Detected	8.1	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	12	Not Detected	45	Not Detected
Chloroethane	4.7	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.5	Not Detected
Ethanol	4.7	Not Detected	8.8	Not Detected
Freon 113	1.2	Not Detected	8.9	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	12	Not Detected	28	Not Detected
2-Propanol	4.7	16	11	39
Carbon Disulfide	4.7	Not Detected	14	Not Detected
3-Chloropropene	4.7	Not Detected	14	Not Detected
Methylene Chloride	12	Not Detected	40	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.2	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.7	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.4	Not Detected
Chloroform	1.2	Not Detected	5.7	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Cyclohexane	1.2	Not Detected	4.0	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.4	Not Detected
Benzene	1.2	1.4	3.7	4.6
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Heptane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	17	6.3	91
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	7.8	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
Toluene	1.2	1.4	4.4	5.2
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	110	7.9	740
2-Hexanone	4.7	Not Detected	19	Not Detected

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Client Sample ID: SV-1D4.5R

Lab ID#: 1505316A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p052817**	**Date of Collection:**	**5/15/15 10:08:00 AM**
Dil. Factor:	**2.33**	**Date of Analysis:**	**5/28/15 07:09 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	9.9	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	Not Detected	5.0	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected
Styrene	1.2	Not Detected	5.0	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.7	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
Propylbenzene	1.2	Not Detected	5.7	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.7	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	34	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: SV-4D4.75

Lab ID#: 1505316A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p052818**	**Date of Collection:**	**5/15/15 12:43:00 PM**
Dil. Factor:	**11.1**	**Date of Analysis:**	**5/28/15 07:42 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.6	Not Detected	27	Not Detected
Freon 114	5.6	Not Detected	39	Not Detected
Chloromethane	56	Not Detected	110	Not Detected
Vinyl Chloride	5.6	Not Detected	14	Not Detected
1,3-Butadiene	5.6	Not Detected	12	Not Detected
Bromomethane	56	Not Detected	220	Not Detected
Chloroethane	22	Not Detected	58	Not Detected
Freon 11	5.6	Not Detected	31	Not Detected
Ethanol	22	Not Detected	42	Not Detected
Freon 113	5.6	Not Detected	42	Not Detected
1,1-Dichloroethene	5.6	Not Detected	22	Not Detected
Acetone	56	94	130	220
2-Propanol	22	Not Detected	54	Not Detected
Carbon Disulfide	22	96	69	300
3-Chloropropene	22	Not Detected	69	Not Detected
Methylene Chloride	56	Not Detected	190	Not Detected
Methyl tert-butyl ether	5.6	Not Detected	20	Not Detected
trans-1,2-Dichloroethene	5.6	Not Detected	22	Not Detected
Hexane	5.6	12	20	41
1,1-Dichloroethane	5.6	Not Detected	22	Not Detected
2-Butanone (Methyl Ethyl Ketone)	22	Not Detected	65	Not Detected
cis-1,2-Dichloroethene	5.6	Not Detected	22	Not Detected
Tetrahydrofuran	5.6	6.1	16	18
Chloroform	5.6	14	27	66
1,1,1-Trichloroethane	5.6	Not Detected	30	Not Detected
Cyclohexane	5.6	Not Detected	19	Not Detected
Carbon Tetrachloride	5.6	Not Detected	35	Not Detected
2,2,4-Trimethylpentane	5.6	Not Detected	26	Not Detected
Benzene	5.6	31	18	99
1,2-Dichloroethane	5.6	Not Detected	22	Not Detected
Heptane	5.6	6.5	23	26
Trichloroethene	5.6	Not Detected	30	Not Detected
1,2-Dichloropropane	5.6	Not Detected	26	Not Detected
1,4-Dioxane	22	Not Detected	80	Not Detected
Bromodichloromethane	5.6	Not Detected	37	Not Detected
cis-1,3-Dichloropropene	5.6	Not Detected	25	Not Detected
4-Methyl-2-pentanone	5.6	Not Detected	23	Not Detected
Toluene	5.6	5.9	21	22
trans-1,3-Dichloropropene	5.6	Not Detected	25	Not Detected
1,1,2-Trichloroethane	5.6	Not Detected	30	Not Detected
Tetrachloroethene	5.6	Not Detected	38	Not Detected
2-Hexanone	22	Not Detected	91	Not Detected

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Client Sample ID: SV-4D4.75

Lab ID#: 1505316A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p052818**	**Date of Collection:**	**5/15/15 12:43:00 PM**
Dil. Factor:	**11.1**	**Date of Analysis:**	**5/28/15 07:42 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.6	Not Detected	47	Not Detected
1,2-Dibromoethane (EDB)	5.6	Not Detected	43	Not Detected
Chlorobenzene	5.6	Not Detected	26	Not Detected
Ethyl Benzene	5.6	Not Detected	24	Not Detected
m,p-Xylene	5.6	Not Detected	24	Not Detected
o-Xylene	5.6	Not Detected	24	Not Detected
Styrene	5.6	Not Detected	24	Not Detected
Bromoform	5.6	Not Detected	57	Not Detected
Cumene	5.6	Not Detected	27	Not Detected
1,1,2,2-Tetrachloroethane	5.6	Not Detected	38	Not Detected
Propylbenzene	5.6	Not Detected	27	Not Detected
4-Ethyltoluene	5.6	Not Detected	27	Not Detected
1,3,5-Trimethylbenzene	5.6	Not Detected	27	Not Detected
1,2,4-Trimethylbenzene	5.6	Not Detected	27	Not Detected
1,3-Dichlorobenzene	5.6	Not Detected	33	Not Detected
1,4-Dichlorobenzene	5.6	Not Detected	33	Not Detected
alpha-Chlorotoluene	5.6	Not Detected	29	Not Detected
1,2-Dichlorobenzene	5.6	Not Detected	33	Not Detected
1,2,4-Trichlorobenzene	22	Not Detected	160	Not Detected
Hexachlorobutadiene	22	Not Detected	240	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: TRAVEL BLANK

Lab ID#: 1505316A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p052819**	**Date of Collection: 5/15/15**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/28/15 08:15 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: TRAVEL BLANK

Lab ID#: 1505316A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p052819**	**Date of Collection: 5/15/15**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/28/15 08:15 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1505316A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p052806**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/28/15 12:14 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1505316A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p052806**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/28/15 12:14 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: CCV

Lab ID#: 1505316A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p052802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/28/15 10:05 AM**	

Compound	%Recovery
Freon 12	82
Freon 114	82
Chloromethane	89
Vinyl Chloride	88
1,3-Butadiene	87
Bromomethane	87
Chloroethane	92
Freon 11	82
Ethanol	80
Freon 113	84
1,1-Dichloroethene	87
Acetone	86
2-Propanol	88
Carbon Disulfide	85
3-Chloropropene	90
Methylene Chloride	87
Methyl tert-butyl ether	83
trans-1,2-Dichloroethene	90
Hexane	84
1,1-Dichloroethane	86
2-Butanone (Methyl Ethyl Ketone)	83
cis-1,2-Dichloroethene	82
Tetrahydrofuran	80
Chloroform	79
1,1,1-Trichloroethane	78
Cyclohexane	88
Carbon Tetrachloride	81
2,2,4-Trimethylpentane	84
Benzene	95
1,2-Dichloroethane	99
Heptane	94
Trichloroethene	87
1,2-Dichloropropane	95
1,4-Dioxane	93
Bromodichloromethane	93
cis-1,3-Dichloropropene	91
4-Methyl-2-pentanone	92
Toluene	91
trans-1,3-Dichloropropene	88
1,1,2-Trichloroethane	84
Tetrachloroethene	87
2-Hexanone	89

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Client Sample ID: CCV

Lab ID#: 1505316A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p052802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/28/15 10:05 AM**	

Compound	%Recovery
Dibromochloromethane	85
1,2-Dibromoethane (EDB)	84
Chlorobenzene	84
Ethyl Benzene	86
m,p-Xylene	91
o-Xylene	89
Styrene	88
Bromoform	85
Cumene	90
1,1,2,2-Tetrachloroethane	84
Propylbenzene	86
4-Ethyltoluene	83
1,3,5-Trimethylbenzene	90
1,2,4-Trimethylbenzene	84
1,3-Dichlorobenzene	84
1,4-Dichlorobenzene	80
alpha-Chlorotoluene	87
1,2-Dichlorobenzene	82
1,2,4-Trichlorobenzene	86
Hexachlorobutadiene	80

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	92	70-130

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Client Sample ID: LCS

Lab ID#: 1505316A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p052803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/28/15 10:38 AM**	

Compound	%Recovery	Method Limits
Freon 12	99	70-130
Freon 114	106	70-130
Chloromethane	97	70-130
Vinyl Chloride	98	70-130
1,3-Butadiene	96	70-130
Bromomethane	98	70-130
Chloroethane	100	70-130
Freon 11	99	70-130
Ethanol	102	70-130
Freon 113	92	70-130
1,1-Dichloroethene	95	70-130
Acetone	88	70-130
2-Propanol	101	70-130
Carbon Disulfide	78	70-130
3-Chloropropene	95	70-130
Methylene Chloride	90	70-130
Methyl tert-butyl ether	88	70-130
trans-1,2-Dichloroethene	87	70-130
Hexane	86	70-130
1,1-Dichloroethane	88	70-130
2-Butanone (Methyl Ethyl Ketone)	88	70-130
cis-1,2-Dichloroethene	106	70-130
Tetrahydrofuran	82	70-130
Chloroform	88	70-130
1,1,1-Trichloroethane	87	70-130
Cyclohexane	98	70-130
Carbon Tetrachloride	89	70-130
2,2,4-Trimethylpentane	91	70-130
Benzene	94	70-130
1,2-Dichloroethane	97	70-130
Heptane	99	70-130
Trichloroethene	88	70-130
1,2-Dichloropropane	95	70-130
1,4-Dioxane	100	70-130
Bromodichloromethane	94	70-130
cis-1,3-Dichloropropene	87	70-130
4-Methyl-2-pentanone	98	70-130
Toluene	94	70-130
trans-1,3-Dichloropropene	91	70-130
1,1,2-Trichloroethane	92	70-130
Tetrachloroethene	98	70-130
2-Hexanone	101	70-130

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Client Sample ID: LCS

Lab ID#: 1505316A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p052803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/28/15 10:38 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	96	70-130
1,2-Dibromoethane (EDB)	90	70-130
Chlorobenzene	90	70-130
Ethyl Benzene	90	70-130
m,p-Xylene	97	70-130
o-Xylene	99	70-130
Styrene	97	70-130
Bromoform	97	70-130
Cumene	98	70-130
1,1,2,2-Tetrachloroethane	90	70-130
Propylbenzene	94	70-130
4-Ethyltoluene	92	70-130
1,3,5-Trimethylbenzene	100	70-130
1,2,4-Trimethylbenzene	91	70-130
1,3-Dichlorobenzene	92	70-130
1,4-Dichlorobenzene	91	70-130
alpha-Chlorotoluene	97	70-130
1,2-Dichlorobenzene	93	70-130
1,2,4-Trichlorobenzene	99	70-130
Hexachlorobutadiene	97	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: LCSD

Lab ID#: 1505316A-11AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p052804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/28/15 11:05 AM**	

Compound	%Recovery	Method Limits
Freon 12	98	70-130
Freon 114	106	70-130
Chloromethane	95	70-130
Vinyl Chloride	95	70-130
1,3-Butadiene	97	70-130
Bromomethane	98	70-130
Chloroethane	98	70-130
Freon 11	99	70-130
Ethanol	92	70-130
Freon 113	96	70-130
1,1-Dichloroethene	96	70-130
Acetone	88	70-130
2-Propanol	95	70-130
Carbon Disulfide	79	70-130
3-Chloropropene	84	70-130
Methylene Chloride	92	70-130
Methyl tert-butyl ether	86	70-130
trans-1,2-Dichloroethene	86	70-130
Hexane	87	70-130
1,1-Dichloroethane	90	70-130
2-Butanone (Methyl Ethyl Ketone)	89	70-130
cis-1,2-Dichloroethene	104	70-130
Tetrahydrofuran	84	70-130
Chloroform	88	70-130
1,1,1-Trichloroethane	89	70-130
Cyclohexane	99	70-130
Carbon Tetrachloride	94	70-130
2,2,4-Trimethylpentane	91	70-130
Benzene	93	70-130
1,2-Dichloroethane	94	70-130
Heptane	94	70-130
Trichloroethene	88	70-130
1,2-Dichloropropane	86	70-130
1,4-Dioxane	99	70-130
Bromodichloromethane	95	70-130
cis-1,3-Dichloropropene	86	70-130
4-Methyl-2-pentanone	96	70-130
Toluene	94	70-130
trans-1,3-Dichloropropene	88	70-130
1,1,2-Trichloroethane	93	70-130
Tetrachloroethene	96	70-130
2-Hexanone	98	70-130

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Client Sample ID: LCSD

Lab ID#: 1505316A-11AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p052804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/28/15 11:05 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	94	70-130
1,2-Dibromoethane (EDB)	88	70-130
Chlorobenzene	91	70-130
Ethyl Benzene	91	70-130
m,p-Xylene	99	70-130
o-Xylene	100	70-130
Styrene	99	70-130
Bromoform	99	70-130
Cumene	98	70-130
1,1,2,2-Tetrachloroethane	90	70-130
Propylbenzene	98	70-130
4-Ethyltoluene	100	70-130
1,3,5-Trimethylbenzene	97	70-130
1,2,4-Trimethylbenzene	96	70-130
1,3-Dichlorobenzene	98	70-130
1,4-Dichlorobenzene	94	70-130
alpha-Chlorotoluene	102	70-130
1,2-Dichlorobenzene	100	70-130
1,2,4-Trichlorobenzene	104	70-130
Hexachlorobutadiene	103	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	107	70-130

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6/1/2015
Mr. Ron Helm
Cornerstone Earth Group
1259 Oakmead Parkway

Sunnyvale CA 94085

Project Name: 1001 N. Shoreline Blvd
Project #: 693-1-2
Workorder #: 1505316B

Dear Mr. Ron Helm

The following report includes the data for the above referenced project for sample(s) received on 5/18/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kyle Vagadori

Project Manager

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WORK ORDER #: 1505316B

Work Order Summary

CLIENT:	Mr. Ron Helm Cornerstone Earth Group 1259 Oakmead Parkway Sunnyvale, CA 94085	**BILL TO:**	Mr. Ron Helm Cornerstone Earth Group 1259 Oakmead Parkway Sunnyvale, CA 94085
PHONE:	408-245-4600	**P.O. #**	
FAX:	408-245-4620	**PROJECT #**	693-1-2 1001 N. Shoreline Blvd
DATE RECEIVED:	05/18/2015	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	06/01/2015		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SV-3D5	Modified ASTM D-1946	6.9 "Hg	15.3 psi
02A	SV-3D9.25	Modified ASTM D-1946	25.7 "Hg	14.7 psi
03A	SV-2D3.75	Modified ASTM D-1946	4.7 "Hg	14.8 psi
04A	SV-2D9	Modified ASTM D-1946	25.3 "Hg	15.1 psi
05A	SV-1D4.5	Modified ASTM D-1946	4.5 "Hg	15 psi
07A	SV-4D4.75	Modified ASTM D-1946	24.5 "Hg	15.2 psi
08A	Lab Blank	Modified ASTM D-1946	NA	NA
09A	LCS	Modified ASTM D-1946	NA	NA
09AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Heidi Mayo DATE: 06/01/15

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1946
Cornerstone Earth Group
Workorder# 1505316B

Six 1 Liter Summa Canister samples were received on May 18, 2015. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***ASTM D-1946***	***ATL Modifications***
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A minimum of 5-point calibration curve is performed. Quantitation is based on average Response Factor.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

Receiving Notes

Samples SV-3D9.25, SV-2D9 and SV-4D4.75 were received with significant vacuum remaining in the canister. The residual canister vacuum resulted in elevated reporting limits.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.
File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

Client Sample ID: SV-3D5

Lab ID#: 1505316B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	18
Carbon Dioxide	0.026	0.93

Client Sample ID: SV-3D9.25

Lab ID#: 1505316B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	1.4	8.8
Carbon Dioxide	0.14	1.5

Client Sample ID: SV-2D3.75

Lab ID#: 1505316B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	11
Carbon Dioxide	0.024	10

Client Sample ID: SV-2D9

Lab ID#: 1505316B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	1.3	7.3
Carbon Dioxide	0.13	2.8

Client Sample ID: SV-1D4.5

Lab ID#: 1505316B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	2.6
Carbon Dioxide	0.024	16

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Summary of Detected Compounds
MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

Client Sample ID: SV-4D4.75

Lab ID#: 1505316B-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	1.1	12
Carbon Dioxide	0.11	0.86

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Client Sample ID: SV-3D5

Lab ID#: 1505316B-01A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	**9052607**	**Date of Collection: 5/14/15 11:02:00 AM**	
Dil. Factor:	**2.65**	**Date of Analysis: 5/26/15 01:55 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	18
Methane	0.00026	Not Detected
Carbon Dioxide	0.026	0.93

Container Type: 1 Liter Summa Canister

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Client Sample ID: SV-3D9.25

Lab ID#: 1505316B-02A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	**9052608**	**Date of Collection:**	**5/14/15 11:40:00 AM**
Dil. Factor:	**14.0**	**Date of Analysis:**	**5/26/15 03:09 PM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	1.4	8.8
Methane	0.0014	Not Detected
Carbon Dioxide	0.14	1.5

Container Type: 1 Liter Summa Canister

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Client Sample ID: SV-2D3.75

Lab ID#: 1505316B-03A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	**9052609**	**Date of Collection: 5/14/15 12:36:00 PM**	
Dil. Factor:	**2.38**	**Date of Analysis: 5/26/15 03:32 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.24	11
Methane	0.00024	Not Detected
Carbon Dioxide	0.024	10

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SV-2D9

Lab ID#: 1505316B-04A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	**9052611**	**Date of Collection: 5/14/15 3:08:00 PM**	
Dil. Factor:	**13.0**	**Date of Analysis: 5/26/15 04:21 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	1.3	7.3
Methane	0.0013	Not Detected
Carbon Dioxide	0.13	2.8

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SV-1D4.5

Lab ID#: 1505316B-05A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	**9052610**	**Date of Collection: 5/15/15 9:55:00 AM**	
Dil. Factor:	**2.38**	**Date of Analysis: 5/26/15 03:53 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	2.6
Methane	0.00024	Not Detected
Carbon Dioxide	0.024	16

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SV-4D4.75

Lab ID#: 1505316B-07A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	**9052612**	**Date of Collection: 5/15/15 12:43:00 PM**	
Dil. Factor:	**11.1**	**Date of Analysis: 5/26/15 05:30 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	1.1	12
Methane	0.0011	Not Detected
Carbon Dioxide	0.11	0.86

Container Type: 1 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1505316B-08A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	**9052605**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/26/15 12:51 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1505316B-09A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	**9052603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/26/15 12:05 PM**	

Compound	%Recovery	Method Limits
Oxygen	98	85-115
Methane	103	85-115
Carbon Dioxide	102	85-115

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1505316B-09AA

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	**9052623**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/26/15 10:36 PM**	

Compound	%Recovery	Method Limits
Oxygen	97	85-115
Methane	98	85-115
Carbon Dioxide	102	85-115

Container Type: NA - Not Applicable

eurofins | Air Toxics

5/31/2015

Mr. Ron Helm
Cornerstone Earth Group
1259 Oakmead Parkway

Sunnyvale CA 94085

Project Name: 1001 N. Shoreline Blvd
Project #: 693-1-2
Workorder #: 1505316D

Dear Mr. Ron Helm

The following report includes the data for the above referenced project for sample(s) received on 5/18/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 (5&20 ppbv) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kyle Vagadori

Project Manager

eurofins | Air Toxics

WORK ORDER #: 1505316D

Work Order Summary

CLIENT:	Mr. Ron Helm Cornerstone Earth Group 1259 Oakmead Parkway Sunnyvale, CA 94085	**BILL TO:**	Mr. Ron Helm Cornerstone Earth Group 1259 Oakmead Parkway Sunnyvale, CA 94085
PHONE:	408-245-4600	**P.O. #**	
FAX:	408-245-4620	**PROJECT #**	693-1-2 1001 N. Shoreline Blvd
DATE RECEIVED:	05/18/2015	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	05/31/2015		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
09A	SV-1D9.25 (IPA)	Modified TO-15 (5&20 ppbv	4.0 "Hg	15 psi
10A	Lab Blank	Modified TO-15 (5&20 ppbv	NA	NA
11A	CCV	Modified TO-15 (5&20 ppbv	NA	NA
12A	LCS	Modified TO-15 (5&20 ppbv	NA	NA
12AA	LCSD	Modified TO-15 (5&20 ppbv	NA	NA

CERTIFIED BY:  DATE: 05/31/15

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

eurofins | Air Toxics

LABORATORY NARRATIVE
EPA Method TO-15 Soil Gas
Cornerstone Earth Group
Workorder# 1505316D

One PAC250 Canister sample was received on May 18, 2015. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 50 mLs of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on sample SV-ID9.25 (IPA) due to the presence of high level target species.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: SV-1D9.25 (IPA)

Lab ID#: 1505316D-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	930	80000	2300	200000

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Client Sample ID: SV-1D9.25 (IPA)

Lab ID#: 1505316D-09A

EPA METHOD TO-15 GC/MS

File Name:	**14052347**	**Date of Collection: 5/15/15 1:51:00 PM**	
Dil. Factor:	**46.6**	**Date of Analysis: 5/23/15 01:37 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	930	80000	2300	200000

Container Type: PAC250 Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1505316D-10A

EPA METHOD TO-15 GC/MS

File Name:	**14052237**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/23/15 08:29 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	20	Not Detected	49	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	88	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	94	70-130

eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 1505316D-11A

EPA METHOD TO-15 GC/MS

File Name:	**14052231**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/22/15 09:26 PM**	

Compound	%Recovery
2-Propanol	99

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	88	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	96	70-130

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1505316D-12A

EPA METHOD TO-15 GC/MS

File Name:	**14052232**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/22/15 09:48 PM**	

Compound	%Recovery	Method Limits
2-Propanol	113	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	89	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	97	70-130

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1505316D-12AA

EPA METHOD TO-15 GC/MS

File Name:	**14052233**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/22/15 10:13 PM**	

Compound	%Recovery	Method Limits
2-Propanol	107	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	88	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	96	70-130

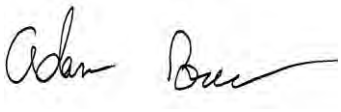
PHASE I ENVIRONMENTAL SITE ASSESSMENT
1001 North Shoreline Boulevard
Mountain View, California

Prepared For:

Lighthouse Real Estate Investments, LLC
c/o Stockbridge Capital Group
4 Embarcadero Center, Suite 3300
San Francisco, CA 94111

Prepared By:

Langan Engineering and Environmental Services, Inc.
555 Montgomery Street, Suite 1300
San Francisco, California 94111



Adam Brown, PG
Project Geologist



Joshua Graber, CHMM
Associate

24 April 2018
731709301

LANGAN

Technical Excellence
Practical Experience
Client Responsiveness

24 April 2018

Lighthouse Real Estate Investments, LLC
c/o Stockbridge Capital Group
4 Embarcadero Center, Suite 3300
San Francisco, CA 94111

Subject: Phase I Environmental Site Assessment
1001 North Shoreline Boulevard
Mountain View, California
Langan Project: 731709301

Dear Sir or Madam:

Langan Engineering and Environmental Services, Inc. (Langan) is pleased to submit this Phase I Environmental Site Assessment (ESA), for the property located at 1001 North Shoreline Boulevard in Mountain View, California.

In performing this Phase I ESA, we have endeavored to observe the degree of care and skill generally exercised by other consultants undertaking similar studies at the same time, under similar circumstances and conditions, and in the same geographical area.

We appreciate the opportunity to assist you with this project. If you have any questions or need any information clarified, please call Mr. Joshua Graber at (510) 874-7000.

Sincerely yours,
Langan Engineering and Environmental Services, Inc.

Adam Brown, PG
Project Geologist

Joshua Graber, CHMM
Associate

731709301.01 JDG_Phase I ESA_1001 N Shoreline Blvd_4828-2710-1529

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PHASE I ENVIRONMENTAL SITE ASSESSMENT
1001 North Shoreline Boulevard
Mountain View, California

E1.0 EXECUTIVE SUMMARY

Langan Engineering and Environmental Services, Inc. (Langan) has performed a Phase I Environmental Site Assessment (ESA) for the property located at 1001 North Shoreline Boulevard in Mountain View, California (Site) (Figure 1). The ESA was performed on behalf of Lighthouse Real Estate Investments, LLC (Client) to assist them with their due diligence for the Site.

This Phase I ESA was conducted in substantial conformance with the American Society for Testing and Materials (ASTM) Practice E1527-13 (Standard Practice for ESA: Phase I ESA Process), and the United States Environmental Protection Agency's (USEPA) 2006 All Appropriate Inquiry (AAI) Rule (40 CFR Part 312). Completion of a Phase I ESA in accordance with the ASTM Practice and AAI Rule is needed to qualify for the bona fide prospective purchaser liability protections available under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA). The objective of this Phase I ESA was to identify the presence or likely presence, use, or release of hazardous substances or petroleum products on the Site, as defined in ASTM E1527-13, as a recognized environmental condition (REC).

E1.1 Site Description

The Site is comprised of one irregularly-shaped parcel (Santa Clara County Assessor's Parcel Number [APN]: 153-015-032), approximately 7.15 acres in size, according to the Santa Clara County Assessor's Office, Book 153, Page 15. The Site has been recently redeveloped into a single, commercial office building, parking lot, and recreational facilities. Prior to redevelopment, the Site was divided into nine separate APNs (153-15-014, 153-15-015, 153-15-016, 153-15-017, 153-15-018, 153-15-022, 153-15-024, 153-15-026, and 153-15-028).

The Site is located in a mixed use area (including residential, commercial, and light industrial) within the City of Mountain View bounded by Highway 101 to the north, Linda Vista Avenue and commercial properties to the east, Terra Bella Avenue to the south, and North Shoreline Boulevard to the west. The Site currently contains one vacant building under construction, a paved parking lot, and completed recreational facilities (i.e. basketball court and sand volleyball court).

E1.2 Environmental Database and File Review

As part of the Phase I ESA, we have reviewed the environmental database report prepared by Environmental Data Resources, Inc. (EDR). The EDR report contains information from the environmental databases maintained by the USEPA, state, and local agencies within the approximate minimum search distance.

The addresses associated with the Site were listed on the California Hazardous Waste Information System (CA HAZNET), Facility Index System (FINDS), Resource Conservation and Recovery Act (RCRA) Generators List Database – Small Quantities Generator (SQG), California National Pollution Discharge and Elimination System (CA NPDES), and the California Spills, Leaks, Investigation, and Cleanup (CA SLIC) databases. The Site is currently enrolled in the Santa Clara County Local Oversight Program (SCCLOP) in connection with redevelopment activities to ensure appropriate environmental mitigation measures are implemented during construction given its location in an area that has area-wide groundwater impacts.

Inquiries were made and records searched at the California Department of Toxic Substances Control (DTSC), California State Water Resource Control Board (SWRCB), Santa Clara County Department of Environmental Health (SCCDEH), and the City of Mountain View Fire Department (CMVFD) regarding any additional files related to any fuel and hazardous materials leaks reported at the Site and surrounding properties.

Based on review of the aerial photographs, topographical maps, and city directories, the Site was used for agricultural purposes beginning in the late 1930s. The Site has since been developed by various previous occupants for residences, warehouses, office space, and light industrial activities. It is currently occupied by one large commercial building that is still undergoing construction.

E1.3 Conclusions

Recognized Environmental Conditions (RECs)

A REC is the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any 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.

Based on the databases searched by EDR, requests made for public documentation related to past or present environmental conditions at the Site and surrounding area, our Site reconnaissance, and the reports (provided to Langan by the Client) discussing the previous investigations conducted at the Site, Langan has identified no current recognized environmental conditions (RECs) associated with the Site during this Phase I ESA.

Controlled Recognized Environmental Conditions (CRECs)

A CREC is a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)."

The following Controlled RECs were identified:

CREC 1 – Presence of Volatile Organic Compound Contamination in Soil Gas and Groundwater beneath the Site

Previous investigations at the Site have identified low levels of volatile organic compounds (VOCs) in soil gas and groundwater above 2016 Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs). Previous reports concluded that this contamination most likely migrated onto the Site from an upgradient source(s) and that soil and groundwater management and health and safety issues could be addressed as part of potential Site development activities. A Site Management Plan (SMP) was prepared for the Site and approved under the Santa Clara County Local Oversight Program (SCCLOP). Langan understands that the SMPs mitigation measures, including a vapor barrier, were and are being implemented as part of recent Site redevelopment. Based on our understanding of the City of Mountain View development approval process, an SMP will be required prior to any additional Site redevelopment and vapor intrusion will be considered as part of the redevelopment process. Therefore, since the upgradient sources have been granted regulatory case closure and an approved SMP is in place at the Site, the presence of VOC contamination in soil gas and groundwater beneath the Site has been identified as a CREC.

CREC 2 – Former Acid Neutralization Sump (1130 Terra Bella Avenue)

A neutralization sump was utilized by Mesa Technology between 1970 and 1988. This sump was used to neutralize acids prior to discharge of industrial waste water from the Mesa Technology facility to the sanitary sewer. In 1987, a fire at 1130 Terra Bella Avenue address resulted in the suspension of Mesa Technologies industrial waste water discharge permit and subsequently the removal of the neutralization sump. All work associated with the removal of the neutralization sump was overseen by the CMVFD. Three monitoring wells (one upgradient and two downgradient) were installed in the vicinity of the former neutralization sump, and groundwater was collected and analyzed for VOCs and metals in 1988. During the 1988 investigation, analytical results indicated that TCE was detected above the established RWQCB Tier 1 ESLs for groundwater of 5 µg/L. The greatest concentration of TCE (240 µg/L) was detected downgradient of the former neutralization sump; however, concentrations of TCE were also detected from the upgradient sample at a concentration of 33 µg/L. At the time of the 1988 investigation, this upgradient detection resulted in an inconclusive determination of the source of the TCE in groundwater. In 1989, the CMVFD granted facility closure with regards to all of the hazardous materials stored and used at the 1130 Terra Bella site.

Additional sampling was conducted in July 2005 and TCE was again detected in all three monitoring wells at concentrations ranging from 33 to 46 µg/L. During this sampling event, the greatest concentration was detected from the upgradient well. As a result of this second round of sampling, previous reports determined the source of TCE was upgradient (to the south of the Site). Since the former acid neutralization sump was approved for closure by the CMVFD and VOC concentrations in groundwater were deemed from an upgradient source, the former acid neutralization sump has been identified as a CREC.

De Minimis Conditions

As defined by ASTM E1527-13, a de minimis condition is 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 government agencies. Possible environmental issues that in Langan's opinion are not likely historical, controlled or recognized environmental conditions but are de minimis conditions include the following at the Site.

- The presence of several historical and existing petroleum service stations upgradient of the Site could pose a risk for petroleum hydrocarbon related contamination to migrate beneath the Site.

- Several historical leaking underground storage tank (LUST) properties, an acid spill, and the former use of a sump on Site were identified at or upgradient of the Site during the EDR Vapor Encroachment Condition (VEC) evaluation and were identified as possible vapor encroachment concerns for the Site. However, soil gas concentrations observed on the Site were below commercial land use screening levels. Given that an approved SMP is associated with the Site and it states that 'the Developer/Owner shall install a vapor barrier system to effectively eliminate vapor intrusions into the proposed structures' and that soil gas concentrations are below commercial screening levels, the potential for vapor intrusion has been identified as a de minimus condition. However, given that the contamination is from upgradient sources, a site-specific vapor intrusion assessment should be conducted as part of any future development process and vapor mitigation should be employed, if necessary.

Conclusion

According to the Quality Assurance (QA) Reports (Appendix J) provided by EPRO Services, Inc., the installation of the vapor barrier has been confirmed and was properly tested prior to completion. Based on the regulatory closure granted, the installation of a vapor barrier beneath the recently constructed building and the approved SMP utilized at the site, no additional environmental action is recommended at this time.

1.0 INTRODUCTION

Langan Engineering and Environmental Services, Inc. (Langan) has completed this Phase I Environmental Site Assessment (ESA) for the property located at 1001 North Shoreline Boulevard in Mountain View, California (Site) (Figure 1). The ESA was performed on behalf of Lighthouse Real Estate Investors, LLC (Client and User), in support of the User's due diligence regarding the Site.

Our understanding is that the property is proposed for ownership transfer and this Phase I ESA report is for due diligence purposes.

1.1 Purpose

The purpose of this Phase I ESA is to:

(1) Identify Recognized Environmental Conditions (RECs) in connection with the Site, as defined in the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E1527-13, which states: The presence or likely presence of any hazardous substances or petroleum products in, on, or at a Site: (1) due to any 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. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate government agencies.

(2) Satisfy the criteria of United States Environmental Protection Agency (USEPA) 40 Code of Federal Regulations (CFR) Part 312 Subpart C Standards and Practices §312.20 AAI Rule.

1.2 Scope of Phase I ESA

This Phase I ESA was conducted utilizing a standard of good commercial and customary practice that is consistent with ASTM E1527-13. Any significant scope-of-work additions, deletions, or deviations to ASTM E1527-13 are noted in Section 9.0 of this report. In general, the scope of this assessment consisted of obtaining information from the User; reviewing reasonably ascertainable information and environmental data relating to the Site; reviewing

maps and records maintained by federal, state, and local regulatory agencies; interviewing persons knowledgeable about the Site; and conducting a Site reconnaissance. The specific scope of this assessment included the following:

1. A Site reconnaissance to observe conditions and assess the Site's location with respect to adjoining and surrounding property uses and natural surface features. The reconnaissance included the surrounding roads and observations of surrounding properties from public rights-of-way to identify obvious potential environmental conditions on neighboring properties. The Site reconnaissance was conducted in a systematic manner focusing on the spatial extent of the Site and then progressing to adjacent and surrounding properties. Photographs taken as part of the Site reconnaissance are provided in Appendix A.

2. As per ASTM E1527-13, a questionnaire was provided to the Client and owner to obtain information related to the Site. The questionnaire was returned to Langan, but did not contain any information not currently included in this report and therefore, is not included in the report.

3. A review of environmental databases maintained by the USEPA, state, and local agencies within the approximate minimum search distance. Environmental Data Resources, Inc. (EDR) prepared the environmental database report, which is included in Appendix C.

4. Physical characteristics of the Site were determined through referenced sources for topographic, geologic, soils, and hydrologic data.

5. A review and interpretation of aerial photographs, Sanborn Fire Insurance Maps (Sanborn Maps), historical topographic maps, and city directories to identify previous activities on and in the vicinity of the Site. Copies are included in Appendices C, D, E, and F, respectively.

1.3 Assumptions, Limitations and Exceptions

This Phase I ESA report was prepared for the Client for the Site located in Mountain View, California. This report is intended to be used in its entirety. Excerpts taken from this report are not necessarily representative of the assessment findings. Langan cannot assume responsibility for use of this report for any property other than the Site addressed herein, or by any other third party without a written authorization from Langan.

Langan's scope of services, which is described in Section 1.2, was limited to that agreed to with the Client and no other services beyond those explicitly stated are implied. Reasonable effort has been made to check that the information obtained is factual and from reliable sources, but no responsibility is assumed for its accuracy. If no hazardous substances or conditions are reported to be on the Site, it should not be interpreted as a guarantee that they do not exist. Langan assumes no responsibility or liability for errors in the information used or statements from sources other than those of Langan. All conclusions and recommendations in this report concerning the Site are those professional opinions of the Langan personnel involved with the project, and this report should not be considered a legal interpretation of existing environmental regulations. Opinions presented herein apply to Site conditions existing at the time of our assessment, and cannot necessarily be taken to apply to Site changes or conditions of which Langan is not aware and have not had the opportunity to evaluate.

The services performed and agreed upon for this effort comports to those prescribed in the ASTM Standard E1527-13. Intrusive sampling (e.g., soil borings and groundwater sampling) was not performed as part of this Phase I ESA.

This Phase I ESA was not intended to be a definitive investigation of possible environmental impacts at the Site. The purpose of this investigation was limited to evaluating if there is reason to suspect the possibility of RECs at the Site. It should be understood that even the most comprehensive Phase I ESA may fail to detect environmental liabilities at a particular site. Therefore, Langan cannot "insure" or "certify" that the Site is free of environmental impacts. No expressed or implied representation or warranty is included or intended in this report, except that our services were performed, within the limits prescribed by our client, with the customary standard of care exercised by professionals performing similar services under similar circumstances within the same jurisdiction.

The conclusions, opinions, and recommendations provided in this report are based solely on the specific activities as required for the performance of ASTM E1527-13 and are intended exclusively for the purpose stated herein, at the specified Site as it existed at the time of our reconnaissance.

1.4 Special Terms and Conditions and User Reliance

The Client requested no special terms or conditions regarding this Phase I ESA. Langan has prepared this report specifically for the use of the Client. The findings contained within the report shall not, in whole or in part, be disseminated or conveyed to any other party, nor be

used by any other party, in whole or in part without written prior consent of the Client and Langan. Other parties cannot rely on this Phase I ESA and the conclusions therein, unless Langan receives a written request from the Client, at which time a "Reliance Letter" will be prepared for the interested party. The relying party will be subject to the same terms and conditions and limitations as agreed to by the Client.

2.0 SITE DESCRIPTION

2.1 Location and Legal Description

The Site is comprised of a single irregularly-shaped parcel covering approximately 7.15 acres, according to the Santa Clara County Assessor's Office, Book 153, Page 15. The Site has recently been redeveloped into a four-story commercial building, a paved parking lot, landscaping features, and recreation facilities (i.e. basketball and sand volleyball court). The Site is in a mixed use area (including residential, commercial, and light industrial) within the City of Mountain View, bounded by Highway 101 to the north, Linda Vista Avenue to the east, Terra Bella Avenue to the south, and North Shoreline Boulevard to the west.

2.2 Site and Vicinity General Characteristics

The Site is located in a mixed use area of Mountain View. According to the United States Geological Survey (USGS) Topographic Maps, reviewed by Langan in EDR's Historical Topographic Map Report, the Site is at approximately 37 feet above mean sea level (msl). The Site topography is generally flat, and slopes down toward the north. Photographs showing the current Site use are provided in Appendix A and historical topographic maps are included in Appendix F.

2.3 Current Use of the Site and Adjoining Properties

The Site contains one vacant, four-story commercial building, a paved parking lot, landscaping, and recreational facilities (i.e. basketball and sand volleyball court). The Site is currently an active construction site with storage containers, equipment, and materials staged throughout the Site. The following table summarizes the current ownership and use of the Site.

Assessor Parcel Number (APN)	Site Owner	Acres	Parcel Use
153-015-032	Calvano/CRP Mountain View, L.L.C., a Delaware limited liability company	7.15	Vacant commercial building, parking and recreation

The current uses of the adjoining properties include:

- North of the Site: Highway 101 and associated on-ramp;
- Northeast: active construction site;
- East of the Site: Linda Vista Avenue and commercial properties;
- West of the Site: North Shoreline Boulevard and commercial properties;
- South of the Site: Terra Bella Avenue and commercial properties.

2.4 Descriptions of Structures, Roads, and Other Site Improvements

The Site contains one vacant, four-story commercial building, a paved parking lot, landscaping, and recreational facilities (i.e. basketball and sand volleyball court). A detailed description of current uses of the Site observed during the Site reconnaissance is discussed in Section 5.0. Photographs showing the current Site use are provided in Appendix A.

3.0 USER PROVIDED INFORMATION

3.1 User/Owner Questionnaire

Per ASTM E1527-13, user and owner questionnaires were provided to the User to inquire about specialized information related to the Site. Langan understands that the User completed the questionnaire and that information from the User, beyond the information already known by Langan, was not identified.

Ms. Kate Velásquez-Heller of Goulstons & Storrs completed the User questionnaire. Ms. Velásquez-Heller is not aware of any environmental cleanup liens and/or land use limitations associated with the Site. The Owner Questionnaire was not received by Langan for inclusion in this report.

3.2 Title Records

The property's title is held by First American Title Insurance Company and the property owner is listed as Calvano/CRP Mountain View, L.L.C., a Delaware limited liability company. A copy of the Title Report is provided in Appendix B.

It should be noted that an Agreement Establishing Chemical Use Restriction was executed on the 1130 Terra Bella property on 7 November 2005 and the User stated that this restriction no longer affects the property. This previous restriction is not considered a REC.

3.3 Environmental Liens or Activity and Use Limitations

The User is not aware of any environmental cleanup or liens in connection to the Site.

3.4 Specialized Knowledge

The Client is not aware of any specialized knowledge beyond that of the environmental professional.

3.5 Commonly Known and Reasonable Ascertainable Information

The User is not aware of any commonly known and reasonable ascertainable information regarding the Site.

3.6 Owner, Site Manager, and Occupant Information

The title records indicate the Site is currently owned by Calvano/CRP Mountain View, L.L.C., a Delaware limited liability company.

3.7 Reason for Performing Phase I ESA

It is our understanding that the Client has requested this ESA be completed as part of their environmental due diligence regarding potential property transfer.

4.0 RECORDS REVIEW

4.1 Standard Environmental Record Sources

Langan reviewed an environmental database search report, prepared by EDR, for the Site and surrounding area. The EDR report is a listing of properties identified on select federal and state standard source environmental databases within the approximate search radius specified by ASTM Standard Practice for E1527-13. This information is reported to Langan by EDR, and to EDR by government sources; therefore, neither Langan nor EDR can verify the completeness and accuracy of the database information. Langan reviewed each environmental database on a record-by-record basis to evaluate if certain sites identified in the report are suspected to

represent a potential impact to the Site. A copy of regulatory database information was provided by EDR and is included in Appendix C.

The following summary table lists the number of properties by database within the prescribed search radius appearing in the EDR Radius Map Report:

Database (Date of government version)	Minimum Search Area	Site Listed	Properties Within Search Area
Federal			
National Priorities Listing (NPL) Site List Database (5/30/2017)	1 mile radius	No	6
Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) – Superfund Enterprise Management System (SEMS) Archive Database (7/11/2017)	1/2 mile radius	No	3
CERCLIS No Further Remedial Action Planned (NFRAP) Site List Database (7/11/2017)	1/2 mile radius	No	1
Resource Conservation and Recovery Act (RCRA) Corrective Action Reports (CORRACTS) Facilities List Database (9/13/2017)	1 mile radius	No	2
RCRA Generators List Database – Large Quantities Generator (9/13/2017)	1/4 mile radius	No	1
RCRA Generators List Database – Small Quantities Generator (SQG) (9/13/2017)	1/4 mile radius	Yes (1130 Terra Bella Avenue)	20
RCRA Generators List Database – Conditionally Exempt SQG (9/13/2017)	1/4 mile radius	No	1
Institutional Controls/Engineering Controls Registries Database (8/10/2017)	1/2 mile radius	No	2
State and Tribal			
Equivalent NPL – California (CA) RESPONSE Database (7/31/2017)	1 mile radius	No	2
Equivalent CERCLIS – CA ENVIROSTOR Database (7/31/2017)	1 mile radius	No	18
Leaking Storage Tank List – CA Leaking Underground Storage Tank (LUST) Database (9/11/2017)	1/2 mile radius	No	31
Leaking Storage Tank List – CA Spills, Leaks, Investigations, and Cleanups (SLIC) Database (9/11/2017)	1/2 mile radius	Yes	21
Leaking Storage Tank List – CA Historical (HIST) LUST Database (3/29/2005)	1/2 mile radius	No	20
Registered Storage Tank List – CA Underground Storage Tank (UST) Database (9/11/2017)	1/4 mile radius	No	8
Registered Storage Tank List – CA Aboveground Storage Tank (AST) Database (7/6/2016)	1/4 mile radius	No	5

Database (Date of government version)	Minimum Search Area	Site Listed	Properties Within Search Area
Others			
Local Lists of Landfill/Solid Waste Disposal Sites – CA Recycler Database (SWRCY) (9/11/2017)	1/2 mile radius	No	1
Local List of Hazardous Waste/Contaminated Sites – CA HIST Cal-Sites Database (8/8/2005)	1 mile radius	No	6
Local List of Registered Storage Tanks – CA Statewide Environmental Evaluation and Planning System (SWEEPS) UST Database (6/1/1994)	1/4 mile radius	No	10
Local List of Registered Storage Tanks – CA HIST UST Database (10/15/1990)	1/4 mile radius	No	20
Local List of Registered Storage Tanks – CA Facility Inventory Database (FID) UST Database (10/31/1994)	1/4 mile radius	No	8
Local Land Records – CA DEED Database (9/5/2017)	1/2 mile radius	No	4
RCRA Non-Generator / No Longer Regulated (NLR) Database (9/13/2017)	1/4 mile radius	No	4
Department of Defense Database (12/31/2005)	1 mile radius	No	1
Record of Decision Database (9/27/2017)	1 mile radius	No	6
CONSENT Database (6/30/2017)	1 mile radius	No	1
Facility Index System (FINDS) Database (7/23/2017)	< 1/8 mile radius	Yes	5
Enforcement and Compliance History Online (ECHO) Database (9/2/2017)	< 1/8 mile radius	No	1
CA BOND EXP. PLAN Database (1/1/1989)	1 mile radius	No	3
CA Cortese Hazardous Waste & Substances Sites List (Cortese) Database (9/21/2017)	1/2 mile radius	No	2
CA Certified Unified Program Agency (CUPA) Listing Database (8/7/2017)	1/4 mile radius	No	19
CA Emissions Inventory Data (EMI) Database (12/31/2015)	< 1/8 mile radius	No	1
CA hazardous Waste Tracking System (HAZNET) Database (12/31/2015)	< 1/8 mile radius	Yes	2
CA HIST CORTESE Database (4/1/2001)	1/2 mile radius	No	27
CA HWP (8/21/2017)	1 mile radius	No	2
New York (NY) MANIFEST Database (10/1/2017)	1/4 mile radius	No	1
CA National Pollution Discharge & Elimination System (NPDES) Database (8/14/2017)	< 1/8 mile radius	Yes	1
CA Notify 65 Database (6/16/2017)	1 mile radius	No	2
EDR High Risk Historical Records – EDR Historic Auto	1/8 mile radius	No	1

A description of the reviewed databases is provided in the EDR Radius Map Report (Appendix C). A summary of significant Site database listings and other properties identified within the prescribed search area is presented below.

Site (1001 North Shoreline Boulevard)

The 1001 North Shoreline Boulevard (or parcels associated with this property) was listed in the CA HAZNET, RCRA-SQG, CA SLIC, CA NPDES, and FINDS databases. Inquiries were made and records searched at the California Department of Toxic Substances Control (DTSC) EnviroStor website (Envirostor), California State Water Resources Control Board (SWRCB) GeoTracker website (GeoTracker), Santa Clara County Department of Environmental Health (SCCDEH), and City of Mountain View Fire Department (CMVFD) regarding any additional files related to any fuel and hazardous materials leaks reported at the Site. The Site is currently listed as an open case under a voluntary cleanup program within the SCCDEH.

According to the Site Management Plan (SMP) dated 15 September 2015 prepared by Cornerstone Earth Group (CEG), the property formerly located at 1130 Terra Bella Avenue had been used for agricultural purposes until 1939 and then used by Pennel Plastering and a residence from 1948 until the late 1970s. Mesa Technologies operated on a portion of the property until 1989 as an instrument and electronics company and warehouse. In 1987, a fire occurred at the Mesa Technologies facility, rupturing a container of holding acid, which in turn resulted in an acid spill reaching an outside storm water drain inlet. Per a letter dated 26 October 1987 from the City of Mountain View, the spill was successfully contained by the CMVFD and cleaned up by the Mountain View Maintenance Department. The SMP states that a groundwater assessment was completed in 1988 identifying that acids, caustic/alkaline cleaner, cyanide, photo resist stripper and flammable solvents had been stored at the Mesa Technology facility in 55-gallon drums, and that industrial wastewater was treated on-Site in a neutralization sump, consisting of a concrete pit in the ground permitted by the City of Mountain View for neutralization of corrosives and acids. Under the oversight of CMVFD, the neutralization pit was removed in 1989 and sampling within the vicinity of the former pit concluded that no releases of hazardous materials had occurred.

Additionally, an investigation in 1988 was conducted to determine if the former Mesa Technology facility at 1130 Terra Bella Avenue had contributed to a regional contaminant plume beneath the Site. Three monitoring wells (one upgradient and two downgradient) were installed in the vicinity of the former neutralization sump, and groundwater was collected and analyzed for volatile organic compounds (VOCs) and metals in 1988 to establish background and current

groundwater concentrations. During the 1988 investigation, analytical results indicated that TCE was detected above the established Regional Water Quality Control Board (RWQCB) Tier 1 Environmental Screening Levels (ESLs) for groundwater of 5 micrograms per liter (µg/L). Initially, the greatest concentration of trichloroethene (TCE) (240 µg/L) was detected downgradient of the former neutralization sump; however, concentrations of TCE were also detected from the upgradient sample at a concentration of 33 µg/L. At the time of the 1988 investigation, this upgradient detection resulted in an inconclusive determination of the source of the TCE in groundwater.

Additional sampling was conducted in July 2005 and TCE was again detected in all three monitoring wells at concentrations ranging from 33 to 46 µg/L. During this sampling event, the greatest concentration was detected from the upgradient well. As a result of this second round of sampling, previous reports determined the source of TCE was upgradient (to the south of the Site). Based on the results of the soil sampling and groundwater sampling following sump removal, the *Addendum to Olin Mesa Closure Plan, 1130 Terra Bella Avenue* documented that there were 'no environmental or health risks posted by the facility after completion of remediation' and 'because TCE and DCE were detected in the upgradient well, it appears these compounds originated from an off-site source' and the facility was closed by the CMVFD. A copy of the *Addendum to Olin Mesa Closure Plan, 1130 Terra Bella Avenue* is included as Appendix H.

All three monitoring wells were destroyed in September 2015. The Site is currently an open case, number 06S2W15M04s, and under SCCLOP oversight pending the completion of the current redevelopment activities and case closure.

A summary of the relevant files and documents are presented in Section 4.6.

Neighboring Properties

Based on our review of the neighboring properties, most of the nearby listings were closed by the regulatory agency, were hydrologically cross-gradient or downgradient, or were determined to be a significant distance (greater than a 1/4 mile) from the Site. Inquiries were made and records searched via the DTSC, SWRCB, SCCDEH, and CMVFD regarding any additional files related to any fuel and hazardous materials leaks reported at the Site. Below are summaries of neighboring properties of concern in regards to possible contamination at the Site and relevant files reviewed.

Former Texaco Station (975 North Shoreline Boulevard)

The Texaco Station at 975 North Shoreline Avenue was listed in the CA LUST, CA HIST CORTESE, CA SWEEPS UST, and CA HIST UST databases. The property is located to the south and upgradient to the Site.

In 1992, at the Former Texaco Station (975 North Shoreline Boulevard), one 6,000-gallon gasoline underground storage tank (UST), four 4,000-gallon gasoline USTs, and one waste oil UST were removed from the station while redeveloping the property into a fast food restaurant. Approximately 1,520 cubic yards of petroleum hydrocarbon-impacted soil and approximately 1,000-gallons of petroleum-impacted groundwater were removed from the former UST area. A soil vapor extraction (SVE) system and 12 groundwater monitoring wells were installed, four of which were installed in the southwest quadrant of the 1001 North Shoreline Blvd Site, to monitor impacts to groundwater. After operating the SVE system for approximately one month in early 1994, rebound testing was performed and it was concluded that no rebound had occurred and that the SVE system had achieved the remedial objectives. The system was decommissioned and the property was redeveloped. During the most recent groundwater monitoring event conducted during the first quarter of 2010, the following contaminants were detected from one of seven monitoring wells sampled, located in the southwest corner of the 1001 North Shoreline Blvd Site:

- Total petroleum hydrocarbons (TPH) as gasoline (TPH-g) at a concentration of 9,900 micrograms per liter (µg/L);
- Benzene at a concentration of 130 µg/L;
- Toluene at a concentration of 4.2 µg/L;
- Ethylbenzene at a concentration of 11 µg/L; and
- Methyl tert-butyl ether (MTBE) at a concentration of 1 µg/L.

The above concentrations of TPH-g and benzene exceed their respective RWQCB Tier 1 ESLs.

In 2010, an off-site indoor air evaluation at the single-story building formerly located at 1015 North Shoreline Avenue address (Site) was conducted to determine if the release at the former Texaco Station had caused a vapor intrusion risk at the property. Although concentrations of benzene and ethylbenzene were detected above their respective indoor air screening criteria, the indoor air levels matched concentrations of an ambient air sample collected outside of the

building. Because indoor and ambient air concentrations were detected within the same order of magnitude, no further vapor intrusion evaluation was deemed necessary.

Case closure was granted to the former Texaco Station on 1 July 2011 by the SCCDEH. All 12 groundwater monitoring wells were destroyed in June 2011. Based on groundwater concentrations detected in 2010, it is possible that contaminants originating at the Texaco property are present in groundwater beneath the Site. However, given the case closure and documents reviewed, it is unlikely that this property poses a significant environmental concern for the subject Site.

The Shippen Property (1175 Terra Bella Avenue)

The Shippen Property at 1175 Terra Bella Avenue was listed in the CA LUST, CA HIST LUST, and CA HIST CORTESE databases. This property is located approximately 50 feet to the south and upgradient of the subject Site.

In August 1998, a 500-gallon gasoline UST was removed from 1175 Terra Bella Avenue (Shippen Property). During the removal of the tank, numerous holes were noticed in the tank. Soil samples were collected from the tank excavation. TPH-g and benzene were detected in soil at concentrations of 1,900 milligrams per kilogram (mg/kg) and 1.7 mg/kg, respectively. A groundwater sample was collected from beneath the tank in September 1998 with TPH-g and benzene detected at 42,000 µg/L and 1,400 µg/L, respectively. In November 2000, three on-property and one off-property borings were advanced to approximately 16 feet below ground surface (bgs) for the collection of soil and groundwater. Benzene and TPH-g were detected in the off-property well at concentrations of 1.8 µg/L and 99 µg/L. TPH-g was also detected in an on-property well at a concentration of 2,600 µg/L. No other contaminants were detected in groundwater. The Shippen Property was granted case closure by SCCLOP on 17 July 2001. Based on the location of the Shippen property and documents reviewed, it is unlikely that this property poses a significant environmental concern for the subject Site.

Jasco Chemical Company (1090 Terra Bella Avenue)

The Jasco Chemical Company at 1090 Terra Bella Avenue was listed in the CA LUST database. This property is located approximately 50 feet to the east and cross-gradient to the subject Site. No pertinent records were received for this address. The summary provided on the GeoTracker database identifies solvents as the potential contaminant of concern and that case closure was granted on 1 October 1997 by the San Francisco Bay Regional Water Quality Control Board

(RWQCB). Based on the location of the Jasco Chemical Company property and documents reviewed, it is unlikely that this property poses a significant environmental concern for the subject Site.

Teledyne-Spectra Physics National Priority List Site (1250 West Middlefield Road)

The Teledyne-Spectra Physics property at 1250 Middlefield Road is a federally listed superfund site and was listed in the CA ENVIROSTOR, CA HIST Cal-Sites, CA HWP, CA SLIC, CA COERTESE, CA ENF, and CA HIST CORTESE data bases. This property is located approximately 650 feet west and cross-gradient to the subject Site.

VOC-impacted groundwater has been detected at the Teledyne-Spectra Physics National Priority List site, the source site for the regional groundwater plume known as the North Bayshore Area plume. TCE is the primary contaminant of concern at the Teledyne-Spectra Physics site with a maximum concentration in the shallow aquifer of 5,100 µg/L. This plume extends approximately one mile north from the Spectra-Physics property at 1250 Middlefield Road and is up to 2,000 feet wide. Based on the location of the Teledyne-Spectra Physics property and documents reviewed, it is unlikely that this property poses a significant environmental concern for the subject Site.

Shell Station (807 North Shoreline Boulevard)

The Shell Station at 807 North Shoreline Boulevard was listed in the CA SWEEPS, CA FID UST, CA UST, RCRA-SQG, FINDS, ECHO, CA CUPA Listings, CA HAZNET, CA LUST, CA HIST LUST, and CA HIST CORTESE databases. This property is located approximately 550 feet to the south and upgradient of the subject Site. In March 1991, three-10,000-gallon gasoline USTs and one 10,000-gallon diesel UST were removed from the Shell Station. Over-excavation of the former tank pit was completed to a depth of 20 feet bgs and soil samples of the sidewalls were collected yielding low levels of TPH-g, TPH as diesel (TPH-d), and benzene. An SVE system was operated at the Shell Station between April 1994 and September 1994 as an interim remedial measure. In May 1998, a joint investigation between Shell, Texaco, and Arco was performed. Soil and groundwater testing was conducted and maximum levels of contamination identified included 15,000 µg/L of TPH-g, 30 µg/L of benzene, and 1,500 µg/L of MTBE. Groundwater extraction and treatment was selected as the preferred remedial alternative. Groundwater was extracted at the Shell Station between June 1999 and 2004. The final groundwater sampling results in August 2004 indicated a significant decrease in contaminants (88 µg/L of TPH-g, 170 µg/L of TPH-d, 21 µg/L of MTBE, and 16 µg/L of tert butyl alcohol [TBA]).

Residual contaminants in soil include 2,800 mg/kg of TPH-g, 61 mg/kg of TPH-d, 0.65 mg/kg of benzene, and 4.7 mg/kg of MTBE as of August 2002.

Closure was granted to the Shell Station by the Santa Clara Valley Water District (SCVWD) on 6 August 2008 stating, "…a continuing threat to groundwater, human health and the environment from residual petroleum hydrocarbons does not exist at this site…". Based on the location of the Shell station and documents reviewed, it is unlikely that this property poses a significant environmental concern for the subject Site.

Chevron Station (808 North Shoreline Boulevard)

The Chevron Station at 808 North Shoreline Boulevard was listed in the CA HIST UST, RCRA-SQG, CA LUST, FINDS, ECHO, CA CUPA Listings, CA UST, CA SWEEPS UST, CA LUST, CA HIST LUST, CA FID UST, CA SLIC, and CA HIST CORTESE databases. This property is located approximately 600 feet to the south and upgradient of the subject Site.

In April 1988, two 5,000-gallon gasoline USTs, one 2,000-gallon gasoline UST, and one 550-gallon waste oil UST were removed from the Chevron Station. Limited over-excavation was performed, and soil samples collected beneath the former tanks indicated maximum concentrations of TPH-g at 11,000 mg/kg and benzene at 71 mg/kg. Quarterly groundwater monitoring was conducted between May 1998 and February 2004. During the last round of groundwater sampling, maximum concentrations of contaminants were 6,800 µg/L of TPH-g, 47 µg/L of benzene, and 64 µg/L of MTBE. Quarterly monitoring showed a steady attenuation of dissolved concentrations of contaminants.

Closure was granted to the Chevron Station by the SCVWD on 18 May 2005 stating, "…a continuing threat to groundwater, human health and the environment from residual petroleum hydrocarbons does not exist at this site…". Based on the location of the Chevron station and documents reviewed, it is unlikely that this property poses a significant environmental concern for the subject Site.

Arco Station (790 North Shoreline Boulevard)

The Arco Station at 790 North Shoreline Boulevard was listed in the CA HIST UST, RCRA-SQG, CA LUST, FINDS, ECHO, CA CUPA Listings, CA UST, CA SWEEPS UST, CA LUST, CA HIST LUST, CA FID UST, CA SLIC, and CA HIST CORTESE databases. This property is located approximately 950 feet to the south and upgradient of the subject Site.

In May 1988, four 6,000-gallon gasoline USTs, one 12,000-gallon gasoline UST, and one 550-gallon waste oil UST were removed from the Arco Station. Approximately 1,030 cubic yards of petroleum hydrocarbon impacted soil and 35,000-gallons of petroleum hydrocarbon impacted groundwater were removed from the former tank pits. Soil samples were collected from approximately 16 feet below ground surface (bgs) after removal of the tanks with maximum contaminant levels of 7,800 mg/kg TPHg, 7.9 mg/kg benzene, 21 mg/kg toluene, 15 mg/kg ethyl benzene, 1,140 µg/L xylenes, and 4,700 µg/L MTBE. Quarterly groundwater sampling continued at the Arco Station until August 2003. Maximum residual groundwater contamination at the Arco Station includes 3,800 µg/LTPH, 600 µg/L benzene, 48 µg/L toluene, 66 µg/L ethyl benzene, and 220 µg/L xylenes.

The Arco Station was granted closure by the SCVWD on 26 July 2004. Based on the location of the Arco station and documents reviewed, it is unlikely that this property poses a significant environmental concern for the subject Site.

Unocal (510 North Shoreline Boulevard)

The Unocal site at 510 North Shoreline Boulevard was listed in the CA LUST, CA HIST UST, and CA HIST CORTESE databases. The property is located approximately 2,350 feet to the south and upgradient of the subject Site.

In July 1989, one 550-gallon waste oil UST was removed from the Unocal property. Soil samples were collected from the former tank excavation. A maximum concentration of 170 mg/kg TPH as oil and grease (TPH-o&g) and 130 mg/kg TPH as oil (o) were detected in soil from a depth of eight feet bgs. In January 1990, five borings were advanced to delineate contamination from the former waste oil UST. A maximum of 35 mg/kg TPH-d and 87 mg/kg TPH-o&g was detected from approximately 10 feet bgs around the former UST. In August 1990, two 10,000-gallon gasoline USTs were removed from the Unocal facility and maximum concentrations of 2.1 mg/kg TPH-g and 0.11 mg/kg benzene were detected in soil from a depth of 14 feet beneath the tanks. Between June 1991 and September 1994, 10 monitoring wells were installed to monitor groundwater at the Unocal facility. Soil samples were collected during the construction of all 10 monitoring wells, and no TPH-g or benzene, toluene ethylbenzene, and xylenes (BTEX) were detected in any of the samples collected. The most recent groundwater samples were collected in 1995 and indicated maximum concentrations of 600 µg/L TPH-g and 17 µg/L benzene at the facility.

Based on the low levels of residual concentrations of petroleum hydrocarbons in groundwater, the Unocal site was granted closure by the SCVWD district on 4 December 1996. Based on the location of the Unocal property and documents reviewed, it is unlikely that this property poses a significant environmental concern for the subject Site.

LGM Manufacturing (723 Stierlin Road)

The LGM Manufacturing (LGM) facility at 723 Stierlin Road was listed in the State and Tribal Equivalent NPL CA RESPONSE database. The facility is located approximately 1,550 feet to the south and upgradient of the subject Site.

Per a DTSC Site Screening Form for this property, LGM printed circuit boards from 1969 to 1983. Chemicals used by LGM included ammonia, etch acids, brighteners, fusing oil, TCE, copper with formaldehyde, and methylene chloride. Chemical wastes were stored in drums and containers in a yard behind the LGM warehouse. An inspection of the LGM facility was conducted by the Department of Health Services, Toxic Substance Control Division (currently the DTSC) in October 1982 in response to a complaint of dying vegetation at an adjacent condominium complex. Drums with residual hazardous materials were washed in the LGM yard and waste water from this cleaning process was dumped onto the ground and allowed to run off-property. The DTSC collected soil and water samples from the storage yard and condominium complex. Fluoride and copper were detected at elevated levels (maximum concentrations of 1,600 mg/kg and 28 mg/kg, respectively) in samples, and the pH of most samples was at acidic levels. In late 1983 and early 1984, chemicals and contaminated soil were removed from the LGM yard and adjacent condominium complex. Confirmation samples were collected for copper and fluoride and detected levels were below health-based risk goals considered safe for residential use. No water sampling results were identified during the records reviewed for this property. Based on the location of the LGM Manufacturing property and documents reviewed, it is unlikely, that this property poses a significant environmental concern for the subject Site.

Orphan Listings

According to EDR, an orphan listing is a property that cannot be mapped due to poor or inadequate address information. Upon further research, Langan concluded that none of the orphan listings appear to be within applicable search distances to the Site and/or are not considered properties of concern.

4.2 Physical Setting Sources

Topography

According to the USGS Topographic Maps, reviewed by Langan in EDR's Historical Topographic Map Report, the Site is at approximately 37 feet above mean sea level (msl). The Site topography is generally flat, and slopes down toward the north. Photographs showing the current Site use are provided in Appendix A.

Geology and Hydrogeology

Subsurface information was obtained from environmental investigations conducted at the Site by other consultants. Shallow subsurface soil consists of sandy silty clay from approximately zero to 10 feet bgs. A sand and gravel layer extends from approximately 10 to 26 feet bgs.

Groundwater was encountered at a depth of approximately 10.5 feet bgs under confined conditions in the sand and gravel layer extending from approximately 10 to 26 feet bgs. The nearest surface water is Stevens Creek, approximately 0.5 miles east of the Site. The Site is approximately 1.8 miles south of the shoreline of the San Francisco Bay. Groundwater is anticipated to flow toward the north.

4.3 Surface Water and Flood Plain Conditions

Surface Water

Stevens Creek is the nearest surface water body, approximately 0.5 miles east of the Site.

Flood Plain

According to the Federal Emergency Management Agency Map Service Center, the Site is not in a flood plain area.

4.4 Nearby Well Locations

Langan's Site reconnaissance and our review of GeoTracker identified one active water supply well in the vicinity of the Site at the intersection of Terra Bella Avenue and North Shoreline Boulevard.

4.5 Historical Use Information on the Site, Adjoining Properties, and Surrounding Properties

Aerial Photograph Review

Langan reviewed aerial photographs to evaluate past uses and relevant characteristics of the Site and surrounding properties. We reviewed the following aerial photographs from EDR: 1939, 1943, 1948, 1950, 1956, 1963, 1968, 1974, 1982, 1991, 1998, 2005, 2006, 2009, 2010, and 2012. Appendix D contains copies of the aerial photographs from EDR.

In the 1939, 1943, 1948, 1950, and 1956 aerial photographs, the Site appears to be occupied by residential homes and agricultural structures and being used for agricultural purposes. The Site and surrounding land becomes increasingly developed with residential properties towards the end of this time period (1939 to 1956).

In 1963, portions of the Site and land south and east of the Site were redeveloped into light industrial warehouses. Sub-developments begin appearing within 0.25 miles of the Site, and Highway 101 is expanded from a two-lane highway to a three-lane highway.

By 1982, the Site and the surrounding land have become fully developed into mix-use residential and light industrial real estate, and by 1991 the Site has been developed entirely into light industrial and commercial real estate. Between 1991 and 2012 the Site remains relatively unchanged.

Sanborn Maps Review

Langan requested Sanborn Fire Insurance Maps from EDR for the Site and adjoining properties. Sanborn Maps provide information on structures related to building construction and materials that could impact fires, i.e. gasoline tanks, chemical storage, etc. within these structures. According to EDR, they have no Sanborn Fire Insurance Map coverage for the Site. The "No Coverage" page is included in Appendix E of this report.

Historical Topography Maps Review

Langan reviewed the following Historical Topography Maps from EDR: 1897, 1899, 1902, 1943, 1947, 1948, 1953, 1961, 1968, 1973, 1981, 1995, 1997, and 2012. Appendix F contains copies of the Historical Topography Maps.

The general topography at the Site ranges from approximately 39 to 34 feet above msl, with the average Site elevation listed on the EDR Radius Map report at 37 feet above msl.

City Directory Review

Langan reviewed the following city directory abstracts obtained from EDR. City Directories were reviewed for the years 1922 to 2014. The Site was listed on the EDR City Directory as previously occupied by various residences, telecommunications facilities, electronics manufacturers, insurance and consultant office buildings, a café, a plaster company, and a semiconductor parts manufacturer from 1957 through 2014. The adjacent properties are occupied by various private residences and commercial properties including a gasoline service station, a restaurant, laboratories, a construction company, a performing arts theatre, and technology companies from at least 1950 through 2014. Appendix G contains a copy of the City Directory Report.

4.6 Previous Environmental Reports

Langan has reviewed the following documents for the Site:

- Environmental Risk Specialties Corporation, *Phase I & II ESA, 1005 & 1015 North Shoreline Boulevard and 1150 Terra Bella Avenue, Mountain View, California*, date 16 March 2011;
- Applied Water Resources (AWR), *Phase I ESA, 1023 Shoreline Boulevard, Mountain View, California*, dated 10 October 2013;
- AWR, *Phase I ESA, 1062 Linda Vista, Mountain View, California*, dated 10 October 2013;
- AWR, *Phase I ESA, 1043 Shoreline Boulevard, Mountain View, California*, dated 10 October 2013;
- AWR, *Phase I ESA, 1130 Terra Bella, Mountain View, California*, dated 10 January 2014;
- AWR, *Phase I ESA, 1160-1170 Terra Bella, Mountain View, California*, dated 10 January 2014;
- AWR, *Phase I ESA, 1091 North Shoreline Boulevard, Mountain View, California*, dated 25 April 2014;
- Cornerstone Earth Group (CEG), *Preliminary Soil Vapor Quality Evaluation, 1001 North Shoreline Boulevard, Mountain View, California*, dated 16 June 2015;
- CEG, *Site Management Plan, 1001 North Shoreline Boulevard, Mountain View, California 94043*, dated 15 September 2015;

- County of Santa Clara, Department of Environmental Health, *Voluntary Cleanup Program: Calvano/CRP Mountain View, 1001 N Shoreline Blvd., Mountain View, CA; SCCo Case No. 06S2W15M04s*, dated 23 October 2015.

- TestAmerica Laboratories Inc., *Analytical Report – 1005 N. Shoreline*, dated 13 July 2016.

- West Environmental Services & Technology, *Summary of Environmental Site Assessments, 1001 N. Shoreline Boulevard, Mountain View, California,* dated 14 February 2017.

- West Environmental Services & Technology, *Groundwater Conditions Summary, 1001 N. Shoreline Boulevard, Mountain View, California,* dated 27 March 2017.

Significant findings are discussed below.

4.6.1 Environmental Risk Specialties Corporation, *Phase I & II ESA, 1005 & 1015 North Shoreline Boulevard and 1150 Terra Bella Avenue, Mountain View, California*, date 16 March 2011

As a part of the Phase II of this investigation, in March 2011, Environmental Risk Specialties Corporation collected soil samples from the rear fenced yard of former address 1015 North Shoreline Boulevard. Soil samples were collected using a hand auger from 0 to 0.5 feet bgs and 2.5 to 3 feet bgs at four locations. Soil samples were analyzed for VOCs by USEPA Method 8260B. No VOCs were detected in any of the analyzed soil samples.

4.6.2 Cornerstone Earth Group, Preliminary Soil Vapor Quality Evaluation, 1001 North Shoreline Boulevard, Mountain View, California, dated 16 June 2015

In June 2015, CEG conducted a Preliminary Soil Vapor Quality Evaluation at 1001 North Shoreline Boulevard Site to assess the need for vapor intrusion mitigation measures for the four-story office building planned for construction at the Site. Seven soil vapor samples were collected and compared to the 2015 RWQCB residential and commercial environmental screening levels (ESLs) for soil gas vapor intrusion human health risk levels. Benzene was detected above its laboratory reporting limit in five of seven samples. Two of the five detected concentrations of benzene (69 micrograms per cubic meter [µg/m^3] and 99 µg/m^3) were reported above the residential ESL of 42 µg/m^3, however, the 2015 commercial ESL [420 µg/m^3] was not exceeded. Tetrachloroethene (PCE) was detected above laboratory reporting limits from two of seven samples. Both detections of PCE (720 µg/m^3 and 740 µg/m^3) were above the 2015 residential ESL (210 µg/m^3); however, concentrations did not exceed the 2015 commercial ESL (2,100 µg/m^3).

TPH-g and other VOCs were detected in the soil vapor samples; however, detections of these compounds were below the respective commercial screening levels. Based on this data, vapor intrusion mitigation measures were determined not to be required for the planned commercial development.

4.6.3 CEG, Site Management Plan, 1001 North Shoreline Boulevard, Mountain View, California 94043, dated 15 September 2015.

CEG summarized the Site history referencing numerous Phase I ESAs and investigations completed by CEG and other consultants between 1990 and 2015 in their SMP dated 15 September 2015. CEG determined the Site was generally agricultural land until the late 1930s. Site uses since then have included residences, warehouses, office space, and light industrial activities.

According to the SMP, the property formerly located at 1130 Terra Bella Avenue had been used for agricultural purposes until 1939 and then used by Pennel Plastering and a residence from 1948 until the late 1970s. Mesa Technologies operated on a portion of the property until 1989 as an instrument and electronics company and warehouse. In 1987, a fire occurred at the Mesa Technologies facility, rupturing a container of holding acid, which in turn resulted in an acid spill reaching an outside storm water drain inlet. Per a letter dated 26 October 1987 from the City of Mountain View, the spill was successfully contained by the CMVFD and cleaned up by the Mountain View Maintenance Department. The SMP states that a groundwater assessment was completed in 1988 identifying that acids, caustic/alkaline cleaner, cyanide, photo resist stripper and flammable solvents had been stored at the Mesa Technology facility in 55-gallon drums, and that industrial wastewater was treated on-Site in a neutralization sump, consisting of a concrete pit in the ground permitted by the City of Mountain View for neutralization of corrosives and acids. Under the oversight of CMVFD, the neutralization pit was removed in 1989 and sampling within the vicinity of the former pit concluded that no releases of hazardous materials had occurred.

Additionally, the SMP summarizes investigations documenting regional groundwater impacts in the general area of the Site. An investigation in 1988 was conducted to determine if the former Mesa Technology facility at 1130 Terra Bella Avenue had contributed to a regional contaminant plume beneath the Site. One upgradient and two downgradient monitoring wells were installed at the Site to establish background groundwater chemical characteristics. TCE was detected in both upgradient and downgradient wells at the Site ranging between 13 and 240 µg/L. The greatest concentration of TCE (240 µg/L) was detected downgradient of the former

neutralization sump; however, concentrations of TCE were also detected from the upgradient sample at a concentration of 33 µg/L. Because TCE and trans 1,2-dichloroethene (trans 1,2-DCE) were detected in the upgradient well, the source of VOC contamination in groundwater was determined to likely be from an off-Site source.

Further sampling performed in July 2005, detected TCE in all three monitoring wells at concentrations ranging between 33 µg/L and 46 µg/L, with the greatest concentration detected from the upgradient well. Trans-1,2-DCE was also detected at a concentration of 0.64 µg/L in the upgradient well. No TPH compounds were detected in groundwater monitoring wells. All three monitoring wells were destroyed in September 2015. The Site is still an open case, number 06S2W15M04s under SCCLOP.

5.0 SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

The Site reconnaissance was conducted in a systematic manner focusing on the spatial extent of the Site and then progressing to the adjacent and surrounding properties.

The assessment of the adjacent and surrounding properties was limited to identifying, if possible, any indications of past or current use that may involve the use, storage, disposal, or generation of hazardous substances or petroleum products; noting the general type of current use; the general topography of the surrounding area; and providing a general description of adjoining or adjacent structures.

Mr. Joshua Osborne of Langan performed a Site and vicinity reconnaissance on behalf of Langan on 6 December 2017. Appendix A contains photographs from the Site reconnaissance.

5.2 General Site Setting and Reconnaissance Observations

The Site contains one partially complete, four-story commercial building, a paved parking lot, landscaping, and recreational facilities (i.e. basketball and volleyball court).

The Site is in a mixed-use area (including residential, commercial, and light industrial) within the City of Mountain View. The Site building is currently under construction with parking and recreational area predominantly completed. Photographs showing the current Site use are provided in Appendix A.

Past Use of Site

Evidence of the previous occupants was not visible during the Site reconnaissance.

Description of Structures

The four-story commercial building under construction is a concrete wall, steel framed, slab-on-grade structure. At the time of the Site reconnaissance, the structure was under construction with the non-structural portions of the slab not yet installed. Construction crews are currently installing ground floor utilities with a vapor barrier and concrete slab to be completed by April 2018. There are no other structures at the Site.

Roads

The Site is bordered by Highway 101 to the north, Linda Vista Avenue to the east, Terra Bella Avenue to the south, and North Shoreline Boulevard to the west.

Storm Drains

Storm drains were observed at the intersection of North Shoreline Boulevard and Terra Bella Avenue, on North Shoreline Boulevard directly south of the Highway 101 on-ramp and at the northern most point of the Site parking lot. Several storm drains were also identified in landscaped areas surrounding the four-story commercial structure. Several other utility vaults and manhole covers were also observed to be located along the Site boundaries.

5.3 Site Observations

Observations of the Site are as follows:

- 1001 North Shoreline Boulevard: At the time of the Site walk, the four-story commercial structure at the Site is currently under construction. Ground floor utilities are currently being installed and interior walls on all four floors of the structure are being erected. Per the design plans for the building, a vapor barrier was installed along the structural footer of the building and additional vapor barrier material was included to facilitate the tie-in of the remaining vapor barrier once utilities have been installed and trenches have been backfilled. Based on a discussion with Dome Construction, construction at the Site will be completed by April 2018.

- The remnants of a stockpile was identified in the southeast corner of the Site at the time of the Site walk. The stockpile was on Visqueen plastic; however, the stockpile was not covered. The source of the stockpile is likely from the recent construction. Based on analytical data provided by the owner related to the soil stockpile, it appears the soil can be handled as a non-hazardous waste.

- A bucket of paint was observed at the time of the Site walk in the eastern most edge of the parking lot.

Hazardous Substances and Petroleum Products in Connection with Identified Uses

Langan did not observe any hazardous substances or petroleum products in connection with identified uses at the time of the Site reconnaissance; however, petroleum powered construction equipment (i.e. grade-all and skid-steer) was being operated at the Site for construction purposes implying that refueling of equipment is taking place at the Site. No above ground refueling tanks were observed during the Site reconnaissance so it is likely that equipment is being refueled via truck-mounted fuel tanks.

Hazardous Substances and Petroleum Product Containers in Connection with Unidentified Uses

Langan observed a five-gallon bucket of paint in the eastern most edge of the parking lot during the Site reconnaissance.

Storage Tanks

Langan did not observe any evidence of above ground or below ground storage tanks at the Site during the time of the Site reconnaissance.

Odors

Langan did not notice any noxious odors at the Site during the reconnaissance.

Pools of Liquids

Langan did not observe pools of liquid at the Site during the reconnaissance.

Drums

Langan did not observe any drums at the Site during the Site reconnaissance.

PCBs

Langan did not observe PCBs or PCB-containing equipment at the Site during the reconnaissance.

Pits, Ponds, or Lagoons

Langan did not observe any pits, ponds, or lagoons at the Site during the reconnaissance.

Stained Soil or Pavement

Langan did not observe any stained soil or pavement at the Site during the Site reconnaissance.

Stressed Vegetation

Langan did not observe stressed vegetation at the Site during the reconnaissance.

Solid Waste

Langan did not observe any solid waste at the Site during the Site reconnaissance.

Wastewater

Langan did not observe wastewater discharges at the Site during the reconnaissance.

Wells

Langan did not observe any wells at the Site during the reconnaissance.

Septic Systems

Langan did not observe septic systems at the Site during the reconnaissance.

Utilities

Utility vaults believed to be related to water lines, electrical lines, gas lines, and storm water lines are present along the Site boundaries.

6.0 INTERVIEWS

6.1 Subject Site User/Owner

For the Phase I ESA, the Site Owner and User of this report were not available for interview.

7.0 VAPOR ENCROACHMENT ASSESSMENT

An evaluation of potential vapor encroachment concern (VEC) was included as consideration for this assessment due to the presence of VOC and TPH contamination in groundwater beneath the Site. Migration, as defined by ASTM E1527-13 Section 3.2.56, is the movement of hazardous substances or petroleum products in any form, including, for example, solid and liquid at the surface or subsurface, and vapor in the subsurface. Vapor intrusion is defined as

the migration of volatile chemicals from the subsurface into overlying buildings. Our assessment for potential vapor encroachment concern or vapor migration at the Site was performed in general accordance with ASTM E1527-13, but did not include an assessment related to vapor intrusion.

Properties within 1/10th of a mile from the Site with current or historical known releases of petroleum hydrocarbons were evaluated as part of the vapor encroachment assessment. Within 1/3rd of a mile of the Site, properties with known or historical releases of other volatile chemicals were evaluated. Langan reviewed EDR's Radius Map Report with GeoCheck and the VEC Application (Appendix C) to evaluate potential vapor encroachment concerns from the surrounding properties meeting the above criteria.

Based on the analysis using the VEC application, Langan identified the following properties as potential sources of vapor encroachment to the Site: properties at 1001 North Shoreline Boulevard, 975 North Shoreline Boulevard, 1090 Terra Bella Avenue, 925 North Shoreline Boulevard, 973 Linda Vista Avenue, 807 North Shoreline Boulevard, 808 North Shoreline Boulevard, 924 San Rafael Avenue, 790 North Shoreline Boulevard, and 760 San Pablo Drive. These properties are within a 1/3 mile radius and upgradient of the Site. The cases for nine of the 10 properties listed above have been closed (1001 North Shoreline Boulevard is currently open); however, there is the potential for residual contamination from some/all of these addresses to exist in soil, soil gas and/or groundwater beneath the Site. As noted above, a vapor barrier is being installed in the current building as a protective measure. Future construction should also include plans for vapor mitigation.

Additional properties not discussed above were not considered by Langan as likely potential sources of vapor encroachment to the Site. Properties evaluated for VEC are included in Appendix C Vapor Encroachment Screen produced using the EDR VEC Application.

8.0 PHASE I ESA FINDINGS AND CONCLUSION

Langan's findings with respect to known and suspect RECs, CRECs, and de minimis conditions, and our opinion of these findings are as follows:

8.1 Known or Suspect RECs

Recognized Environmental Conditions (RECs)

A REC is the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any 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.

Based on the databases searched by EDR, requests made for public documentation related to past or present environmental conditions at the Site and surrounding area, our Site reconnaissance, and the reports (provided to Langan by the Client) discussing the previous investigations conducted at the Site, Langan has identified no current recognized environmental conditions (RECs) associated with the Site during this Phase I ESA.

Controlled Recognized Environmental Conditions (CRECs)

A CREC is a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)."

The following Controlled RECs were identified:

CREC 1 – Presence of Volatile Organic Compound Contamination in Soil Gas and Groundwater beneath the Site

Previous investigations at the Site have identified low levels of volatile organic compounds (VOCs) in soil gas and groundwater above 2016 Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs). Previous reports concluded that this contamination most likely migrated onto the Site from an upgradient source(s) and that soil and groundwater management and health and safety issues could be addressed as part of potential Site development activities. A Site Management Plan (SMP) was prepared for the Site and approved under the Santa Clara County Local Oversight Program (SCCLOP). Langan understands that the SMPs mitigation measures, including a vapor barrier, were and are being implemented as part of recent Site redevelopment. Based on our understanding of the City of

Mountain View development approval process, an SMP will be required prior to any additional Site redevelopment and vapor intrusion will be considered as part of the redevelopment process. Therefore, since the upgradient sources have been granted regulatory case closure and an approved SMP is in place at the Site, the presence of VOC contamination in soil gas and groundwater beneath the Site has been identified as a CREC.

CREC 2 – Former Acid Neutralization Sump (1130 Terra Bella Avenue)

A neutralization sump was utilized by Mesa Technology between 1970 and 1988. This sump was used to neutralize acids prior to discharge of industrial waste water from the Mesa Technology facility to the sanitary sewer. In 1987, a fire at 1130 Terra Bella Avenue address resulted in the suspension of Mesa Technologies industrial waste water discharge permit and subsequently the removal of the neutralization sump. All work associated with the removal of the neutralization sump was overseen by the CMVFD. Three monitoring wells (one upgradient and two downgradient) were installed in the vicinity of the former neutralization sump, and groundwater was collected and analyzed for VOCs and metals in 1988. During the 1988 investigation, analytical results indicated that TCE was detected above the established RWQCB Tier 1 ESLs for groundwater of 5 µg/L. The greatest concentration of TCE (240 µg/L) was detected downgradient of the former neutralization sump; however, concentrations of TCE were also detected from the upgradient sample at a concentration of 33 µg/L. At the time of the 1988 investigation, this upgradient detection resulted in an inconclusive determination of the source of the TCE in groundwater. In 1989, the CMVFD granted facility closure with regards to all of the hazardous materials stored and used at the 1130 Terra Bella site.

Additional sampling was conducted in July 2005 and TCE was again detected in all three monitoring wells at concentrations ranging from 33 to 46 µg/L. During this sampling event, the greatest concentration was detected from the upgradient well. As a result of this second round of sampling, previous reports determined the source of TCE was upgradient (to the south of the Site). Since the former acid neutralization sump was approved for closure by the CMVFD and VOC concentrations in groundwater were deemed from an upgradient source, the former acid neutralization sump has been identified as a CREC.

8.2 De Minimis Conditions

As defined by ASTM E1527-13, a de minimis condition is 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 government agencies. Possible environmental issues that in Langan's opinion are not likely historical,

controlled or recognized environmental conditions but are de minimis conditions include the following at the Site.

- The presence of several historical and existing petroleum service stations upgradient of the Site could pose a risk for petroleum hydrocarbon related contamination to migrate beneath the Site.

- Several historical leaking underground storage tank (LUST) properties, an acid spill, and the former use of a sump on Site were identified at or upgradient of the Site during the EDR Vapor Encroachment Condition (VEC) evaluation and were identified as possible vapor encroachment concerns for the Site. However, soil gas concentrations observed on the Site were below commercial land use screening levels. Given that an approved SMP is associated with the Site and it states that 'the Developer/Owner shall install a vapor barrier system to effectively eliminate vapor intrusions into the proposed structures' and that soil gas concentrations are below commercial screening levels, the potential for vapor intrusion has been identified as a de minimus condition. However, given that the contamination is from upgradient sources, a site-specific vapor intrusion assessment should be conducted as part of any future development process and vapor mitigation should be employed, if necessary.

8.3 Conclusions

According to the Quality Assurance (QA) Reports (Appendix J) provided by EPRO Services, Inc., the installation of the vapor barrier has been confirmed and was properly tested prior to completion. Based on the regulatory closure granted, the installation of a vapor barrier beneath the recently constructed building and the approved SMP utilized at the site, no additional environmental action is recommended at this time.

8.4 Data Gaps

The Site history could not be researched in five-year intervals back to 1940 because of a lack of readily available information. It is Langan's opinion that this variation from the ASTM standard does not significantly affect the results of this Phase I ESA or the ability to assess the presence of a REC at the Site, because land use did not change frequently enough to warrant a five year interval Site history evaluation.

9.0 DEVIATIONS

This Phase I ESA has been performed without deviation to, and in conformance with, ASTM Practice E 1527-05 and E1527-13 (Standard Practice for ESA: Phase I ESA Process) except as

noted. No expressed or implied representation or warranty is included or intended in the report, except that the services were performed within the limits prescribed by the Client, and with the customary thoroughness and competence of our profession.

10.0 ADDITIONAL SERVICES

The scope of services performed for this study did not include the following non-ASTM required Phase I ESA items: radon, asbestos containing materials (ACM), lead-based paint (LBP), lead in drinking water, polychlorinated biphenyl (PCB)-containing material, wetlands, cultural and historical resources, industrial hygiene, health and safety, ecological resources, endangered species, mold, indoor air quality, and biological agents.

11.0 REFERENCES

The sources below were used during the performance of this Phase I ESA.

- ASTM E 1527-05, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process;
- ASTM E 1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process;
- 40 CFR Part 312, Standards and Practices for All Appropriate Inquiry, Federal Register, Volume 70, Number 210, 1 November 2005.
- State of California Department of Toxic Substances Control, *EnviroStor online database*, http://www.envirostor.dtsc.ca.gov/public/;
- State of California State Water Resources Control Board, *Geotracker online database*, http://geotracker.waterboards.ca.gov/;
- Environmental Data Resources, Inc. – Environmental Database Search Report: 1001 North Shoreline Boulevard, Mountain View, CA 94043;
  - The EDR – Radius Map™ Report with GeoCheck® dated 28 November 2017;
  - The EDR – Aerial Photo Decade Package dated 28 November 2017;
  - The EDR – Historical Topographical Map Report dated 27 November 2017;
  - The EDR – Certified Sanborn® Map Report dated 27 November 2017;
  - The EDR – City Directory Abstract dated 28 November 2017; and
  - The EDR – Vapor Encroachment Screen dated 11 December 2017.
- Environmental Risk Specialties Corporation, *Phase I & II ESA, 1005 & 1015 North Shoreline Boulevard and 1150 Terra Bella Avenue, Mountain View, California*, date 16 March 2011.
- Applied Water Resources (AWR), *Phase I ESA, 1023 Shoreline Boulevard, Mountain View, California*, dated 10 October 2013.
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- AWR, *Phase I ESA, 1043 Shoreline Boulevard, Mountain View, California*, dated 10 October 2013.
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- AWR, *Phase I ESA, 1160-1170 Terra Bella, Mountain View, California*, dated 10 January 2014.

- AWR, *Phase I ESA, 1091 North Shoreline Boulevard, Mountain View, California*, dated 25 April 2014.

- Cornerstone Earth Group (CEG), *Preliminary Soil Vapor Quality Evaluation, 1001 North Shoreline Boulevard, Mountain View, California*, dated 16 June 2015.

- CEG, *Site Management Plan, 1001 North Shoreline Boulevard, Mountain View, California 94043*, dated 15 September 2015.

- County of Santa Clara, Department of Environmental Health, *Voluntary Cleanup Program: Calvano/CRP Mountain View, 1001 N Shoreline Blvd., Mountain View, CA; SCCo Case No. 06S2W15M04s*, dated 23 October 2015.

- TestAmeriac Laboratories Inc., *Analytical Report – 1005 N. Shoreline*, dated 13 July 2016.

- West Environmental Services & Technology, *Summary of Environmental Site Assessments, 1001 N. Shoreline Boulevard, Mountain View, California,* dated 14 February 2017.

- West Environmental Services & Technology, *Groundwater Conditions Summary, 1001 N. Shoreline Boulevard, Mountain View, California,* dated 27 March 2017.

- EPRO Services, Inc., *QA Report, 1001 North Shoreline, Mountain View, CA, VMS below slab remediation project*, dated 13 December 2017.

- EPRO Services, Inc., *QA Report, 1001 North Shoreline, Mountain View, CA, VMS below slab remediation project*, dated 3 January 2018.

12.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

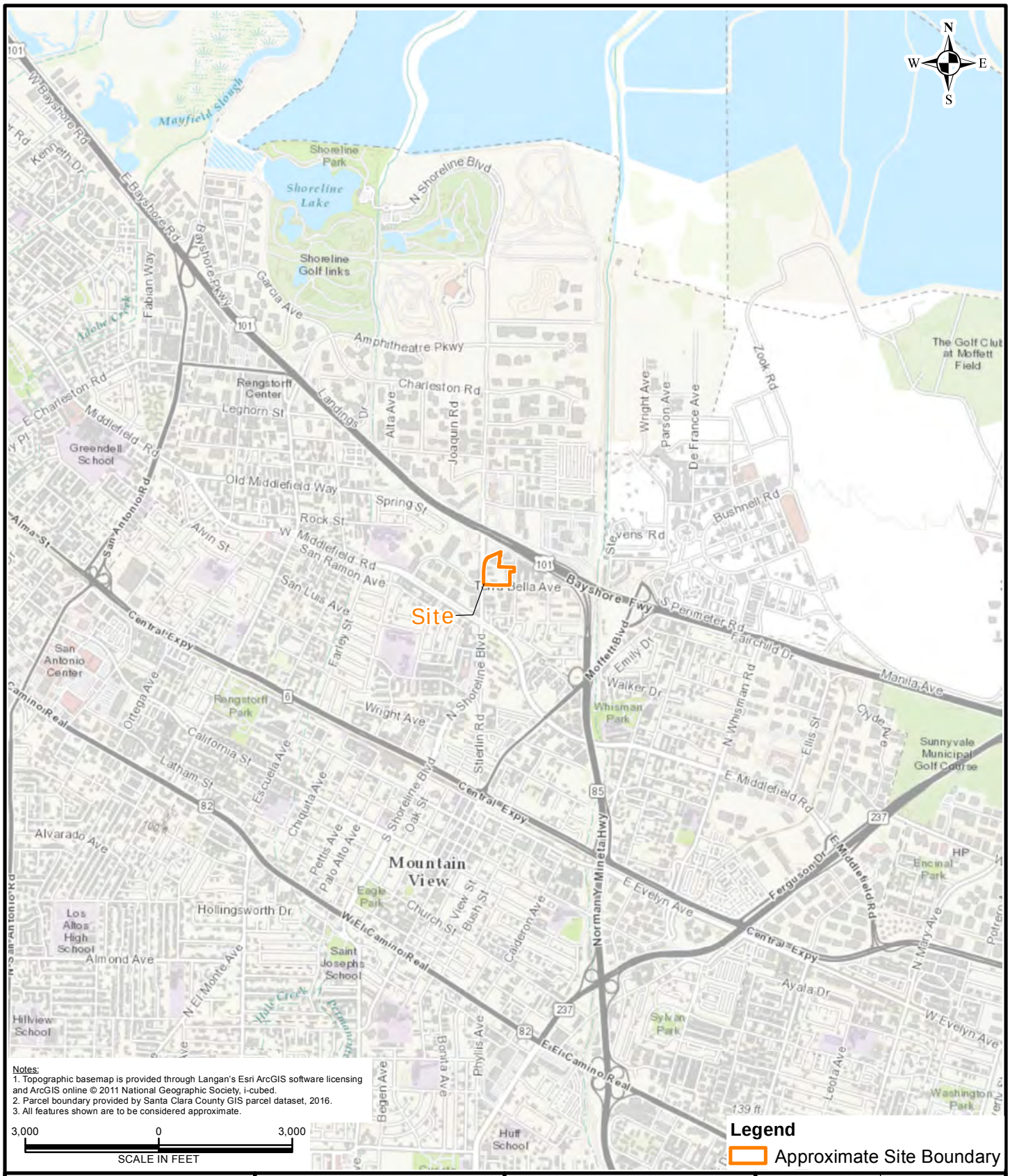
The signatures of the environmental professional(s) responsible for this Phase I ESA are provided on the submittal letter and/or cover page of this report.

13.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

The qualifications of the environmental professionals that conducted this ESA are presented in the resumes provided in Appendix I. Langan declares that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in

#312.10 of 40 CFR 312. Langan has the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Site. Langan has developed and performed the all appropriate inquiries in general conformance with the standards and practices set forth in 40 CFR Part 312.

FIGURES



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Langan International LLC

Collectively known as Langan

Project	1001 N. SHORELINE BOULEVARD MOUNTAIN VIEW SANTA CLARA COUNTY CALIFORNIA
Drawing Title	SITE LOCATION MAP
Project No.	731709301
Date	11/28/2017
Scale	1 " = 3,000 '
Drawn By	OG
Figure	1

© 2013 Langan

Path: \\langan.com\data\SFO\data3\731709301\Project Data\ArcGIS\MXD\Environmental_Figures\Site Location Map.mxd



Notes:
1. Aerial imagery is provided by NearMap, 10/21/2017.
2. Parcel boundary provided by Santa Clara County GIS parcel dataset, 2016.
3. All features shown are to be considered approximate.

150 0 150
SCALE IN FEET

Legend

Approximate Site Boundary

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Langan International LLC

Collectively known as Langan

Project
1001 N. SHORELINE BOULEVARD
MOUNTAIN VIEW
SANTA CLARA COUNTY CALIFORNIA

Drawing Title
SITE PLAN

Project No. 731709301	Figure 2
Date 11/28/2017	
Scale 1 " = 150 '	
Drawn By OG	

© 2013 Langan

Path: \\langan.com\data\SFO\data3\731709301\Project Data\ArcGIS\MXD\Environmental_Figures\Site Plan.mxd

APPENDIX A
SITE PHOTOGRAPHS



Photograph 1: Exterior view of the front entrance to 1001 North Shoreline Boulevard (facing northeast).



Photograph 2: Exterior view of the back entrance to 1001 North Shoreline Boulevard (facing northwest).



Photograph 3: Building footer and vapor barrier for tie-in of remaining vapor barrier upon completion of utility installation (facing north).



Photograph 4: Utility trenching on the ground floor of 1001 North Shoreline Boulevard (facing northwest).



Photograph 5: Utility trenching on the ground floor of 1001 North Shoreline Boulevard (facing north).



Photograph 6: Central staircase at 1001 North Shoreline Boulevard from the ground floor (facing southwest).



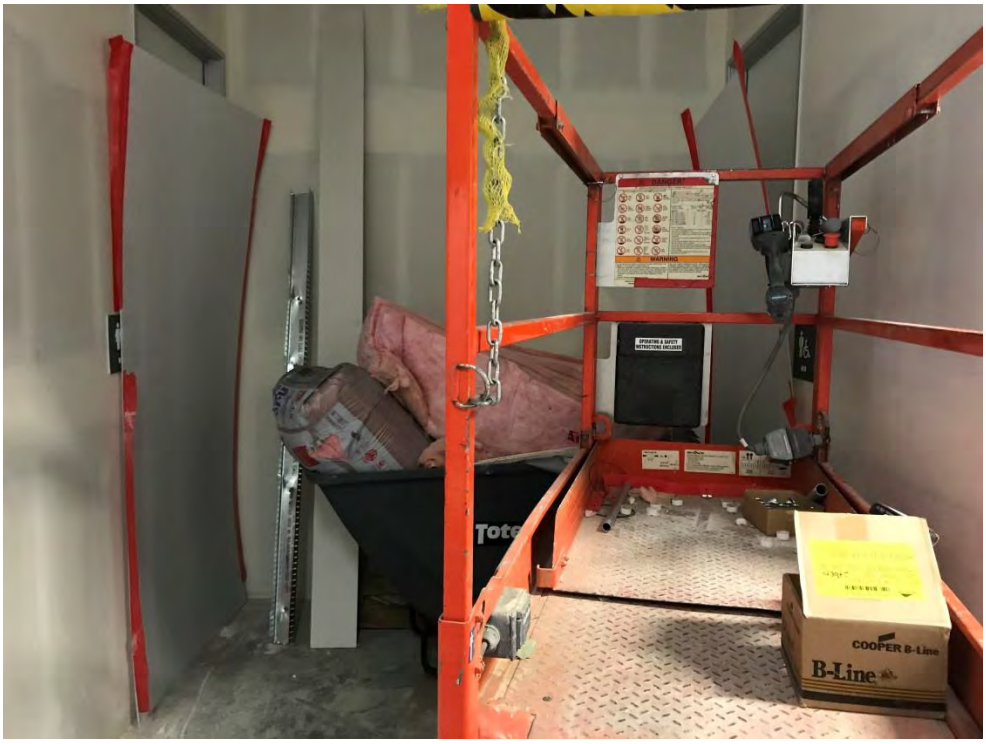
Photograph 7: Elevators from the ground floor of 1001 North Shoreline Boulevard (facing southwest).



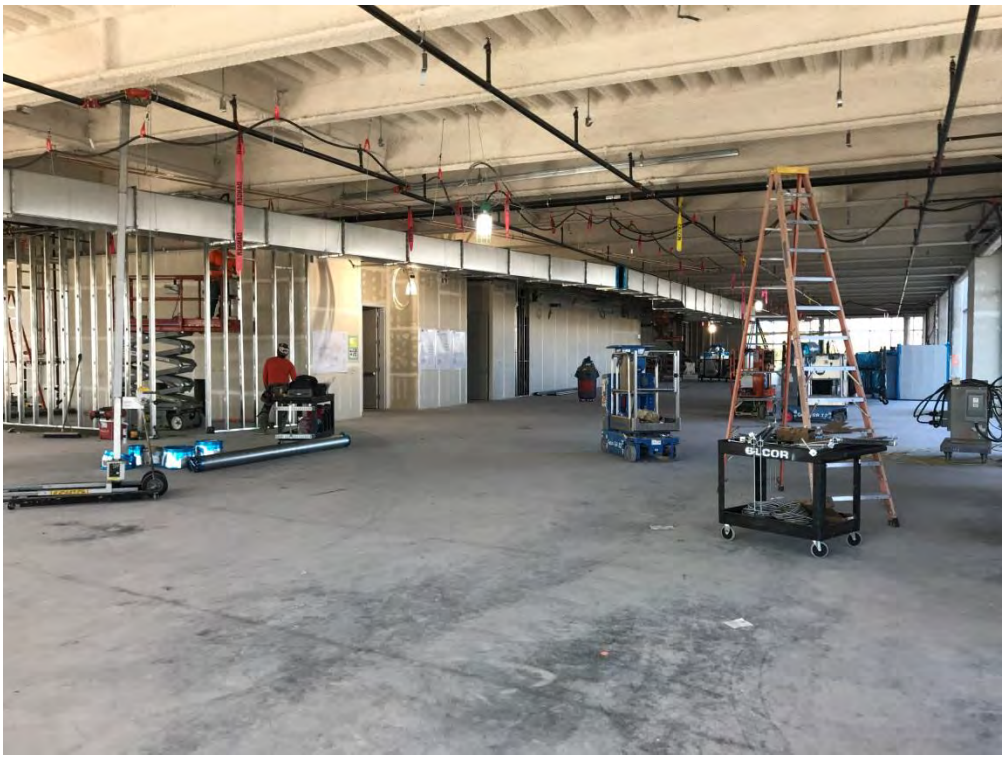
Photograph 8: Janitors closet on the ground floor (facing east).



Photograph 9: Main electrical room on the ground floor of 1001 North Shoreline Boulevard (facing south).



Photograph 10: Entrance to restrooms, blocked off by construction equipment on the ground floor of 1001 North Shoreline Boulevard (facing north).



Photograph 11: Overview of the second floor of 1001 North Shoreline Boulevard (facing northwest).



Photograph 12: Overview of the third floor of 1001 North Shoreline Boulevard (facing south).



Photograph 13: Overview of the fourth floor of 1001 North Shoreline Boulevard (facing south).



Photograph 14: Rooftop of 1001 North Shoreline Boulevard (facing north).



Photograph 15: Storm drain located within landscaped area in front of 1001 North Shoreline Boulevard (facing east).



Photograph 16: Adjacent properties located south of the Site along Terra Bella Avenue (facing southwest).



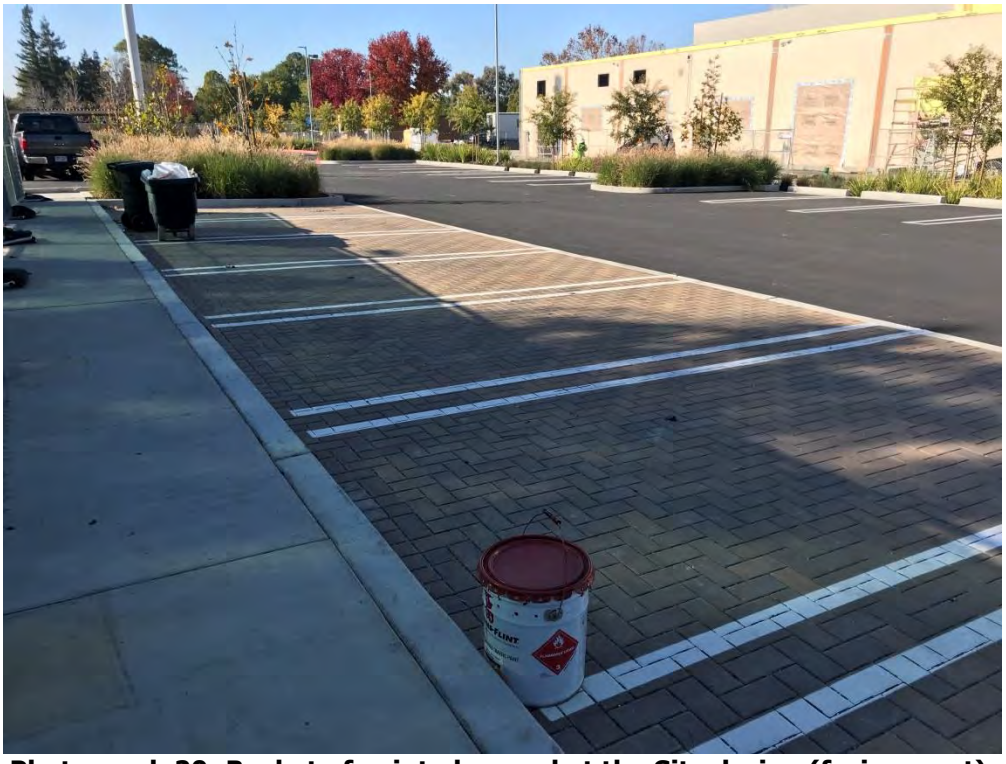
Photograph 17: Adjacent properties located east of the Site along Linda Vista Avenue (facing north).



Photograph 18: Adjacent properties located east of the Site along Linda Vista Avenue (facing northwest).



Photograph 19: Construction site northeast of the Site (facing west).



Photograph 20: Bucket of paint observed at the Site during (facing west).



Photograph 21: Cellular phone tower (facing west).



Photograph 22: Soil stockpile observed at the Site in the southeast corner of the parking lot (facing southeast).



Photograph 23: Overview of the parking lot (facing northwest).



Photograph 24: Sand volley ball court (foreground) and basketball court (background) (facing northeast).



Photograph 24: Storm drain at northern boundary of the Site (facing north).



Photograph 24: Cal-Trans right-of-way north of the Site (facing Northwest).



Photograph 24: On ramp to Highway 101 (facing north).

APPENDIX B
TITLE REPORT

Amendment #1

First American Title Insurance Company

National Commercial Services

800 Boylston Street, Suite 2820
Boston, MA 02199

December 1, 2017

Amy Moody McGrath, Esq.
Goulston & Storrs PC
400 Atlantic Avenue
Boston , MA 02110-3333
Phone: (617)574-4198
Fax: (617)574-7542

Customer Reference: 1001 North Shoreline Boulevard

Title Officer:	Scott Vernon	Title Assistant:	Michael Pealer
Phone:		Phone:	
Email:	SVernon@firstam.com	Email:sss	mpealer@firstam.com

Order Number: NCS-880397-BOS1

Escrow Officer: Alfredo Pierre-Louis
Phone: (888)505-8558
Email: apierre-louis@firstam.com

Property: 3675 Mount Diablo Boulevard, Mountain View, CA

Attached please find the following item(s):

Commitment

Thank You for your confidence and support. We at First American Title Insurance Company maintain the fundamental principle:

Customer First!

First American Title Insurance Company

INFORMATION

The Title Insurance Commitment is a legal contract between you and the company. It is issued to show the basis on which we will issue a Title Insurance Policy to you. The Policy will insure you against certain risks to the land title, subject to the limitations shown in the policy.

The Company will give you a sample of the Policy form, if you ask.

The Commitment is based on the land title as of the Commitment Date. Any changes in the land title or the transaction may affect the Commitment and the Policy.

The Commitment is subject to its Requirements, Exceptions and Conditions.

This information is not part of the title insurance commitment.

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Conditions		

YOU SHOULD READ THE COMMITMENT VERY CAREFULLY.
If you have any questions about the Commitment,
please contact the issuing office.

COMMITMENT FOR TITLE INSURANCE

Issued by

First American Title Insurance Company

Agreement to Issue Policy

We agree to issue a policy to you according to the terms of this Commitment.

When we show the policy amount and your name as the proposed insured in Schedule A, this Commitment becomes effective as of the Commitment Date shown in Schedule A.

If the Requirements shown in this Commitment have not been met within six months after the Commitment Date, our obligation under this Commitment will end. Also, our obligation under this Commitment will end when the Policy is issued and then our obligation to you will be under the Policy.

Our obligation under this Commitment is limited by the following:

The Provisions in Schedule A.

The Requirements in Schedule B-1.

The Exceptions in Schedule B-2.

The Conditions.

This Commitment is not valid without Schedule A and Sections 1 and 2 of Schedule B.

SCHEDULE A

1. Commitment Date: November 20, 2017 at 7:30 A.M.

2. Policy or Policies to be issued: Amount

   (A) ALTA Extended Owner's Policy 1402.06 (6-17-06) $TBD

   Proposed Insured:

   To Be Determined

   (B) To Be Determined $TBD

   Proposed Insured:

   To Be Determined

3. (A) The estate or interest in the land described in this Commitment is:

   Fee Simple as to Parcel A of Tract One and Tract Two, an Easement as to Parcels B, C and D of Tract One.

   (B) Title to said estate or interest at the date hereof is vested in:

   Calvano/CRP Mountain View Owner, L.L.C., a Delaware limited liability company

4. The land referred to in this Commitment is situated in the City of Mountain View, County of Santa Clara, State of California, and is described as follows:

   TRACT ONE:

   PARCEL A:

   ALL OF PARCEL 1, AS SHOWN ON THE PARCEL MAP LOT MERGER FILED FOR RECORD IN THE OFFICE OF THE RECORDER OF THE COUNTY OF SANTA CLARA, STATE OF CALIFORNIA, ON MAY 11, 2016 IN BOOK 892 OF MAPS, PAGES 14 THROUGH 20.

   PARCEL B:

   A PRIVATE NON-EXCLUSIVE EASEMENT FOR THE INSTALLATION, MAINTENANCE AND REPAIR OF UTILITIES, UNDER, UPON, OVER AND ACROSS THAT CERTAIN "UTILITY EASEMENT AREA" AS DESCRIBED IN THAT CERTAIN UTILITY EASEMENT AGREEMENT RECORDED MAY 14, 2004 AS INSTRUMENT NO. 17789791, OFFICIAL RECORDS, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

   BEGINNING AT THE MOST EASTERLY CORNER OF SAID PARCEL B; THENCE FROM SAID POINT OF BEGINNING ALONG THE GENERAL EASTERLY LINE OF SAID PARCEL B THE FOLLOWING COURSES: NORTH 88° 18' 09" WEST 38.736 METERS; ALONG A TANGENT CURVE TO THE LEFT WITH A RADIUS OF 17.069 METERS, THROUGH A CENTRAL ANGLE OF 22° 38' 52" FOR AN ARC LENGTH OF 6.747 METERS; THENCE LEAVING SAID GENERAL EASTERLY LINE NORTH 63° 42' 25" WEST 12.996 METERS TO THE TRUE POINT OF BEGINNING FOR THIS DESCRIPTION;

THENCE FROM SAID TRUE POINT OF BEGINNING NORTH 63° 42' 25" WEST 46.271 METERS; THENCE NORTH 63° 07' 58" WEST 17.931 METERS; THENCE FROM A TANGENT BEARING OF SOUTH 79° 00' 51" WEST ALONG A CURVE TO THE LEFT WITH A RADIUS OF 39.397 METERS, THROUGH A CENTRAL ANGLE OF 1° 42' 58" FOR AN ARC LENGTH OF 1.180 METERS TO A POINT OF COMPOUND CURVATURE; THENCE ALONG A TANGENT CURVE TO THE LEFT WITH A RADIUS OF 62.045 METERS, THROUGH A CENTRAL ANGLE OF 8° 18' 56" FOR AN ARC LENGTH OF 9.005 METERS; THENCE SOUTH 68° 58' 57" WEST 24.371 METERS; THENCE FROM A TANGENT BEARING OF SOUTH 29° 36' 35" WEST ALONG A CURVE TO THE RIGHT WITH A RADIUS OF 1.981 METERS, THROUGH A CENTRAL ANGLE OF 39° 22' 22" FOR AN ARC LENGTH OF 1.361 METERS; THENCE SOUTH 68° 58' 57" WEST 3.063 METERS TO A POINT IN THE WESTERLY LINE OF SAID PARCEL B; THENCE ALONG SAID WESTERLY LINE SOUTH 1° 11' 32" WEST 8.074 METERS; THENCE LEAVING SAID WESTERLY LINE NORTH 68° 58' 57" EAST 25.603 METERS; THENCE ALONG A TANGENT CURVE TO THE RIGHT WITH A RADIUS OF 45.718 METERS, THROUGH A CENTRAL ANGLE OF 20° 12' 11" FOR AN ARC LENGTH OF 16.121 METERS TO THE INTERSECTION THEREOF WITH A LINE PARALLEL WITH AND DISTANCE 7.000 METERS SOUTHWESTERLY, MEASURED AT RIGHT ANGLES FROM ABOVE SAID COURSE WITH A LENGTH OF 17.931 METERS; THENCE ALONG SAID PARALLEL LINE AND A LINE PARALLEL WITH AND DISTANT 7.000 METERS SOUTHWESTERLY, MEASURED AT RIGHT ANGLES, FROM ABOVE SAID COURSE WITH A LENGTH OF 46.271 METERS THE FOLLOWING TWO COURSES: SOUTH 63° 07' 58" EAST 10.917 METERS AND SOUTH 63° 42' 24" EAST 48.577 METERS; THENCE LEAVING SAID PARALLEL LINE NORTH 8° 35' 03" EAST 7.348 METERS TO THE TRUE POINT OF BEGINNING.

PARCEL C:

A PRIVATE NON-EXCLUSIVE EASEMENT FOR THE INSTALLATION, MAINTENANCE AND REPAIR OF UTILITIES, UNDER, UPON, OVER AND ACROSS THAT CERTAIN "STREET EASEMENT AREA" AS DESCRIBED IN THAT CERTAIN UTILITY EASEMENT AGREEMENT RECORDED MAY 14, 2004 AS INSTRUMENT NO. 17789791, OFFICIAL RECORDS, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE MOST EASTERLY CORNER OF SAID PARCEL B; THENCE FROM SAID POINT OF BEGINNING ALONG THE GENERAL EASTERLY LINE OF SAID PARCEL B THE FOLLOWING COURSES: NORTH 88° 18' 09" WEST 38.736 METERS; ALONG A TANGENT CURVE TO THE LEFT WITH A RADIUS OF 17.069 METERS, THROUGH A CENTRAL ANGLE OF 22° 38' 52" FOR AN ARC LENGTH OF 6.747 METERS TO THE TRUE POINT OF BEGINNING FOR THIS DESCRIPTION; THENCE FROM SAID TRUE POINT OF BEGINNING ALONG SAID GENERAL EASTERLY LINE THE FOLLOWING TWO COURSES: FROM A TANGENT BEARING SOUTH 69° 02' 59" WEST, ALONG A CURVE TO THE LEFT WITH A RADIUS OF 17.069 METERS, THROUGH A CENTRAL ANGLE OF 67° 51' 04" FOR A LENGTH OF 20.213 METERS AND SOUTH 1° 11' 54" WEST 5.673 METERS; THENCE LEAVING SAID GENERAL EASTERLY LINE, FROM A TANGENT BEARING OF NORTH 21° 56' 33" WEST ALONG A CURVE TO THE LEFT WITH A RADIUS OF 18.500 METERS, THROUGH A CENTRAL ANGLE OF 9° 24' 30" FOR AN ARC LENGTH OF 3.038 METERS TO A POINT OF REVERSE CURVATURE; THENCE ALONG A TANGENT CURVE TO THE RIGHT WITH A RADIUS OF 12.200 METERS, THROUGH A CENTRAL ANGLE OF 39° 56' 06" FOR AN ARC LENGTH OF 8.503 METERS; THENCE NORTH 8° 35' 03" EAST 16.314 METERS; THENCE SOUTH 63° 42' 25" EAST 12.996 METERS TO THE TRUE POINT OF BEGINNING.

PARCEL D:

A PRIVATE NON-EXCLUSIVE EASEMENT FOR INGRESS AND EGRESS, UNDER, UPON, OVER AND ACROSS THAT CERTAIN "INGRESS-EGRESS EASEMENT" AS DESCRIBED IN THAT CERTAIN EASEMENT AGREEMENT RECORDED MAY 14, 2004 AS INSTRUMENT NO. 17789792, OFFICIAL RECORDS, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE EASTERLY LINE OF SAID PARCEL B; SAID POINT BEARS, ALONG SAID EASTERLY LINE, NORTH 1° 11' 54" EAST 7.297 METERS FROM THE SOUTHEAST CORNER OF SAID PARCEL B; THENCE FROM SAID POINT OF BEGINNING, ALONG SAID EASTERLY LINE, NORTH 1° 11' 54" EAST 7.315 METERS; THENCE LEAVING SAID EASTERLY

LINE NORTH 88° 46' 47" WEST 79.037 METERS; THENCE ALONG A TANGENT CURVE TO THE RIGHT WITH A RADIUS OF 8.000 METERS, THROUGH A CENTRAL ANGLE OF 90° 02' 27" FOR AN ARC LENGTH OF 12.572 METERS; THENCE NORTH 1° 15' 40" EAST 45.723 METERS; THENCE SOUTH 66° 38' 18" WEST 9.137 METERS TO A POINT IN THE WESTERLY LINE OF SAID PARCEL B; THENCE ALONG SAID WESTERLY LINE SOUTH 1° 11' 32" WEST 22.678 METERS TO A WESTERLY CORNER OF SAID PARCEL B; THENCE SOUTH 88° 48' 28" EAST 0.964 METERS TO A POINT IN A LINE PARALLEL WITH AND DISTANT 7.315 METERS WESTERLY, MEASURED AT RIGHT ANGLES, FROM ABOVE SAID COURSE WITH A LENGTH OF 45.723 METERS; THENCE ALONG SAID PARCEL LINE SOUTH 1° 15' 40" WEST 31.563 METERS; THENCE LEAVING SAID PARALLEL LINE, ALONG A TANGENT CURVE TO THE LEFT WITH A RADIUS OF 3.000 METERS, THROUGH A CENTRAL ANGLE OF 90° 02' 27" FOR AN ARC LENGTH OF 4.715 METERS TO A POINT IN A LINE PARALLEL WITH AND DISTANT 7.315 METERS SOUTHERLY, MEASURED AT RIGHT ANGLES, FROM ABOVE SAID COURSE WITH A LENGTH OF 79.037 METERS; THENCE ALONG SAID PARALLEL LINE SOUTH 88° 46' 47" EAST 91.363 METERS TO THE POINT OF BEGINNING.

TRACT TWO:

BEGINNING AT A POINT ON THE NORTHWESTERLY LINE OF PARCEL 2 AS DESCRIBED IN THE DIRECTOR'S DEED (STATE PARCEL NO. 11987-DD) FROM THE STATE OF CALIFORNIA TO GEORGE T. HEMMETER AND ANNE B. HEMMETER, HIS WIFE, AS JOINT TENANTS RECORDED JANUARY 17, 1961 IN VOLUME 5043 OF OFFICIAL RECORDS, PAGE 683, SANTA CLARA COUNTY RECORDS, SAID POINT BEING AT THE NORTHEASTERLY TERMINUS OF THE COURSE DESCRIBED IN SAID PARCEL 2 AS "NORTH 66° 37' 26" EAST 325.40 FEET"; THENCE FROM SAID POINT OF BEGINNING, ALONG SAID NORTHWESTERLY LINE, FROM A TANGENT BEARING OF NORTH 66° 38' 18" EAST ALONG A CURVE TO THE RIGHT WITH A RADIUS OF 200.00 FEET, THROUGH A CENTRAL ANGLE OF 1° 09' 44", FOR AN ARC LENGTH OF 4.06 FEET; THENCE LEAVING SAID NORTHWESTERLY LINE, FROM A TANGENT BEARING OF NORTH 67° 53' 44" WEST ALONG A CURVE TO THE LEFT WITH A RADIUS OF 71.18 FEET, THROUGH A CENTRAL ANGLE OF 31° 30' 51", FOR AN ARC LENGTH OF 39.15 FEET; THENCE SOUTH 80° 35' 25" WEST 203.11 FEET; THENCE ALONG A TANGENT CURVE TO THE LEFT WITH A RADIUS OF 200.00 FEET, THROUGH A CENTRAL ANGLE OF 67° 56' 09", FOR AN ARC LENGTH OF 237.14 FEET; THENCE SOUTH 12° 39' 16" WEST 66.01 FEET TO A POINT IN THE NORTHWESTERLY LINE OF PARCEL 1 AS DESCRIBED IN SAID DIRECTOR'S DEED; THENCE ALONG LAST SAID NORTHWESTERLY LINE, THE SOUTHEASTERLY LINE OF PARCEL 2 AS DESCRIBED IN SAID STATE PARCEL NO. 11986 AND SAID NORTHWESTERLY LINE OF SAID PARCEL 2 AS DESCRIBED IN SAID DIRECTOR'S DEED, FROM A TANGENT BEARING OF NORTH 12° 39' 16" EAST ALONG A CURVE TO THE RIGHT WITH A RADIUS OF 150.00 FEET, THROUGH A CENTRAL ANGLE OF 53° 59' 02", FOR AN ARC LENGTH OF 141.33 FEET: AND NORTH 66° 38' 18" EAST 354.11 FEET TO THE POINT OF BEGINNING.

APN(s): 153-15-032 (Tract One) and 153-15-033 (Tract Two)

SCHEDULE B

SECTION ONE

REQUIREMENTS

The following requirements must be met:

(A) Pay the agreed amounts for the interest in the land and/or the mortgage to be insured.

(B) Pay us the premiums, fees and charges for the policy.

(C) Documents satisfactory to us creating the interest in the land and/or the mortgage to be insured must be signed, delivered and recorded.

(D) You must tell us in writing the name of anyone not referred to in this Commitment who will get an interest in the land or who will make a loan on the land. We may then make additional requirements or exceptions.

(E) Releases(s) or Reconveyance(s) of Item(s): 30, 33, 35, 37, 39 and 40

(F) Other: None

(G) You must give us the following information:
1. Any off record leases, surveys, etc.
2. Statement(s) of Identity, all parties.
3. Other: None

The following additional requirements, as indicated by "X", must be met:

[X] (H) Provide information regarding any off-record matters, which may include, but are not limited to: leases, recent works of improvement, or commitment statements in effect under the Environmental Responsibility Acceptance Act, Civil Code Section 850, et seq.

The Company's Owner's Affidavit form (as provided by company) must be completed and submitted prior to close in order to satisfy this requirement. This Commitment will then be subject to such further exceptions and/or requirements as may be deemed necessary.

[X] (I) An ALTA/NSPS survey of recent date, which complies with the current minimum standard detail requirements for ALTA/NSPS land title surveys, must be submitted to the Company for review. This Commitment will then be subject to such further exceptions and/or requirements as may be deemed necessary.

[X] (J) The following LLC documentation is required:
(i) a copy of the Articles of Organization
(ii) a copy of the Operating Agreement, if applicable
(iii) a Certificate of Good Standing and/or other evidence of current Authority to Conduct Business within the State
(iv) express Company Consent to the current transaction

[] (K) The following partnership documentation is required **:**
(i) a copy of the partnership agreement, including all applicable amendments thereto
(ii) a Certificate of Good Standing and/or other evidence of current Authority to Conduct Business within the State
(iii) express Partnership Consent to the current transaction

[] (L) The following corporation documentation is required:
(i) a copy of the Articles of Incorporation
(ii) a copy of the Bylaws, including all applicable Amendments thereto
(iii) a Certificate of Good Standing and/or other evidence of current Authority to Conduct Business within the State
(iv) express Corporate Resolution consenting to the current transaction

[**X**] (M) Based upon the Company's review of that certain partnership/operating agreement dated **Not disclosed** for the proposed insured herein, the following requirements must be met:

Any further amendments to said agreement must be submitted to the Company, together with an affidavit from one of the general partners or members stating that it is a true copy, that said partnership or limited liability company is in full force and effect, and that there have been no further amendments to the agreement. This Commitment will then be subject to such further requirements as may be deemed necessary.

[] (N) A copy of the complete lease, as referenced in Schedule A, #3 herein, together with any amendments and/or assignments thereto, must be submitted to the Company for review, along with an affidavit executed by the present lessee stating that it is a true copy, that the lease is in full force and effect, and that there have been no further amendments to the lease. This Commitment will then be subject to such further requirements as may be deemed necessary.

[X] (O) Approval from the Company's Underwriting Department must be obtained for issuance of the policy contemplated herein and any endorsements requested thereunder. This Commitment will then be subject to such further requirements as may be required to obtain such approval.

[X] (P) Potential additional requirements, if ALTA Extended coverage is contemplated hereunder, and work on the land has commenced prior to close, some or all of the following requirements, and any other requirements which may be deemed necessary, may need to be met:

[X] (Q) The Company's "Indemnity Agreement I" must be executed by the appropriate parties.

[X] (R) Financial statements from the appropriate parties must be submitted to the Company for review.

[X] (S) A copy of the construction contract must be submitted to the Company for review.

[X] (T) An inspection of the land must be performed by the Company for verification of the phase of construction.

[X] (U) The Company's "Mechanic's Lien Risk Addendum" form must be completed by a Company employee, based upon information furnished by the appropriate parties involved.

SCHEDULE B

SECTION TWO

EXCEPTIONS

Any policy we issue will have the following exceptions unless they are taken care of to our satisfaction. The printed exceptions and exclusions from the coverage of the policy or policies are set forth in Exhibit A attached. Copies of the policy forms should be read. They are available from the office which issued this Commitment.

1. General and special taxes and assessments for the fiscal year 2017-2018.

First Installment:	$348,782.97, DUE
Penalty:	$0.00
Second Installment:	$348,782.97, PAYABLE
Penalty:	$0.00
Tax Rate Area:	005-010
A. P. No.:	153-15-032

(Affects Tract One)

2. General and special taxes and assessments for the fiscal year 2017-2018.

First Installment:	$6,718.03, DUE
Penalty:	$0.00
Second Installment:	$6,718.03, PAYABLE
Penalty:	$0.00
Tax Rate Area:	005-010
A. P. No.:	153-15-033

(Affects Tract Two)

3. Supplemental taxes for the fiscal year 2016-2017 assessed pursuant to Chapter 3.5 commencing with Section 75 of the California Revenue and Taxation Code.

First Installment:	$6,049.43, PAID
Penalty:	$0.00
Second Installment:	$6,049.43, DELINQUENT
Penalty:	$624.94
Tax Rate Area:	005-010
A. P. No.:	153-15-033

(Affects Tract Two)

4. The lien of supplemental taxes, if any, assessed pursuant to Chapter 3.5 commencing with Section 75 of the California Revenue and Taxation Code.

5. Covenants, conditions, restrictions and easements in the document recorded January 29, 1929 in Book 442, Page 312 of Official Records, but deleting any covenant, condition or restriction indicating a preference, limitation or discrimination based on race, color, religion, sex, handicap, familial status, national origin, sexual orientation, marital status, ancestry, source of income or disability, to the extent such covenants, conditions or restrictions violate Title 42, Section 3604(c), of the United States Codes. Lawful restrictions under state and federal law on the age of occupants in senior housing or housing for older persons shall not be construed as restrictions based on familial status.

   (Affects Parcel A of Tract One)

6. Covenants, conditions, restrictions and easements in the document recorded May 07, 1932 in Book 616, Page 29 of Official Records, but deleting any covenant, condition or restriction indicating a preference, limitation or discrimination based on race, color, religion, sex, handicap, familial status, national origin, sexual orientation, marital status, ancestry, source of income or disability, to the extent such covenants, conditions or restrictions violate Title 42, Section 3604(c), of the United States Codes. Lawful restrictions under state and federal law on the age of occupants in senior housing or housing for older persons shall not be construed as restrictions based on familial status.

   (Affects Tract Two)

7. Covenants, conditions, restrictions and easements in the document recorded July 25, 1933 in Book 661, Page 38 of Official Records, but deleting any covenant, condition or restriction indicating a preference, limitation or discrimination based on race, color, religion, sex, handicap, familial status, national origin, sexual orientation, marital status, ancestry, source of income or disability, to the extent such covenants, conditions or restrictions violate Title 42, Section 3604(c), of the United States Codes. Lawful restrictions under state and federal law on the age of occupants in senior housing or housing for older persons shall not be construed as restrictions based on familial status.

   (Affects Parcel A of Tract One)

8. Covenants, conditions, restrictions and easements in the document recorded January 10, 1934 in Book 671, Page 396 of Official Records, but deleting any covenant, condition or restriction indicating a preference, limitation or discrimination based on race, color, religion, sex, handicap, familial status, national origin, sexual orientation, marital status, ancestry, source of income or disability, to the extent such covenants, conditions or restrictions violate Title 42, Section 3604(c), of the United States Codes. Lawful restrictions under state and federal law on the age of occupants in senior housing or housing for older persons shall not be construed as restrictions based on familial status.

   (Affects Tract Two)

9. Covenants, conditions, restrictions and easements in the document recorded September 24, 1934 in Book 699, Page 435 of Official Records, but deleting any covenant, condition or restriction indicating a preference, limitation or discrimination based on race, color, religion, sex, handicap, familial status, national origin, sexual orientation, marital status, ancestry, source of income or disability, to the extent such covenants, conditions or restrictions violate Title 42, Section 3604(c), of the United States Codes. Lawful restrictions under state and federal law on the age of occupants in senior housing or housing for older persons shall not be construed as restrictions based on familial status.

   (Affects Parcel A of Tract One with other property)

10. Covenants, conditions, restrictions and easements in the document recorded April 20, 1939 in Book 930, Page 134 of Official Records, but deleting any covenant, condition or restriction indicating a preference, limitation or discrimination based on race, color, religion, sex, handicap, familial status, national origin, sexual orientation, marital status, ancestry, source of income or disability, to the extent such covenants, conditions or restrictions violate Title 42, Section 3604(c), of the United States Codes. Lawful restrictions under state and federal law on the age of occupants in senior housing or housing for older persons shall not be construed as restrictions based on familial status.

    (Affects Parcel A of Tract One)

11. Covenants, conditions, restrictions and easements in the document recorded May 24, 1939 in Book 937, Page 47 of Official Records, but deleting any covenant, condition or restriction indicating a preference, limitation or discrimination based on race, color, religion, sex, handicap, familial status, national origin, sexual orientation, marital status, ancestry, source of income or disability, to the extent such covenants, conditions or restrictions violate Title 42, Section 3604(c), of the United States Codes. Lawful restrictions under state and federal law on the age of occupants in senior housing or housing for older persons shall not be construed as restrictions based on familial status.

    (Affects Parcel A of Tract One)

12. Covenants, conditions, restrictions and easements in the document recorded July 10, 1940 in Book 989, Page 481 of Official Records, but deleting any covenant, condition or restriction indicating a preference, limitation or discrimination based on race, color, religion, sex, handicap, familial status, national origin, sexual orientation, marital status, ancestry, source of income or disability, to the extent such covenants, conditions or restrictions violate Title 42, Section 3604(c), of the United States Codes. Lawful restrictions under state and federal law on the age of occupants in senior housing or housing for older persons shall not be construed as restrictions based on familial status.

    (Affects Parcel A of Tract One)

13. Covenants, conditions, restrictions and easements in the document recorded December 06, 1945 in Book 1320, Page 59 of Official Records, but deleting any covenant, condition or restriction indicating a preference, limitation or discrimination based on race, color, religion, sex, handicap, familial status, national origin, sexual orientation, marital status, ancestry, source of income or disability, to the extent such covenants, conditions or restrictions violate Title 42, Section 3604(c), of the United States Codes. Lawful restrictions under state and federal law on the age of occupants in senior housing or housing for older persons shall not be construed as restrictions based on familial status.

    (Affects Parcel A of Tract One)

14. Abutter's rights of ingress and egress to or from freeway have been relinquished in the document recorded October 01, 1957 in Book 3902, Page 693 of Official Records.

    (Affects Tract One and Two)

15. An easement for public street and public utilities and incidental purposes, recorded September 22, 1960 in Book 4925, Page 284 of Official Records.

In Favor of:	City of Mountain View, a municipal corporation
Affects:	As described therein

    At the date of recording of the document, the parties thereto had no record interest in the land.

(Affects Parcel A of Tract One)

16. Abutter's rights of ingress and egress to or from freeway have been relinquished in the document recorded January 17, 1961 in Book 5043, Page 679 of Official Records.

(Affects Tracts One and Two)

17. A waiver of any claims for damages by reason of the location, construction, landscaping or maintenance of a contiguous freeway, highway, roadway or transit facility as contained in the document recorded January 17, 1961 in Book 5043, Page 679 of Official Records.

(Affects Tracts One and Two)

18. Abutter's rights of ingress and egress to or from freeway have been relinquished in the document recorded January 17, 1961 in Book 5043, Page 683 of Official Records.

(Affects Tract Two)

19. An easement for public street and public utilities and incidental purposes, recorded December 27, 1961 in Book 5412, Page 626 of Official Records.
In Favor of: City of Mountain View, a municipal corporation
Affects: Parcel A of Tract One

20. An easement for public street and public utilities and incidental purposes, recorded December 27, 1961 in Book 5412, Page 631 of Official Records.
In Favor of: City of Mountain View, a municipal corporation
Affects: Parcel A of Tract One

21. An easement for public street and incidental purposes, recorded January 02, 1962 in Book 5417, Page 415 of Official Records.
In Favor of: City of Mountain View, a municipal corporation
Affects: Parcel A of Tract One

22. An easement for public utilities and incidental purposes, recorded May 04, 1970 in Book 8910, Page 256 of Official Records.
In Favor of: Pacific Gas and Electric Company, a California corporation
Affects: Parcel A of Tract One

23. An easement for public utilities and incidental purposes, recorded August 08, 1975 in Book B551, Page 673 as Instrument No. 5071601 of Official Records.
In Favor of: City of Mountain View
Affects: Parcel A of Tract One

24. The terms and provisions contained in the document entitled "Agreement " recorded August 15, 1975 in Book B564, Page 231 as Instrument No. 5077564 of Official Records.

(Affects Parcel A of Tract One)

25. The terms and provisions contained in the document entitled "Underground Utility and Agreement" recorded June 06, 1983 in Book H610, Page 35 as Instrument No. 7704677 of Official Records.

(Affects Tract Two)

26. An easement shown or dedicated on the map of Parcel Map recorded September 19, 1983 and on file in Book 518, Page 10, of Maps Maps.
For: public utilities and incidental purposes.

(Affects Parcel A of Tract One)

27. The terms and provisions contained in the document entitled "Covenant Running with the Land" recorded September 19, 1983 in Book H906, Page 478 as Instrument No. 7820871 of Official Records. By and between Maskatiya, Suri Company, Inc. and the City of Mountain View

(Affects Parcel A of Tract One)

28. The terms, provisions and easement(s) contained in the document entitled "Utility Easement Agreement" recorded May 14, 2004 in Instrument No. 17789791 of Official Records.

(Affects Parcels B and C of Tract One)

29. The terms, provisions and easement(s) contained in the document entitled "Easement Agreement" recorded May 14, 2004 as Instrument No. 17789792 of Official Records.

(Affects Parcel D of Tract One)

30. A Deed of Trust to secure an original indebtedness of $2,219,500.00 recorded July 08, 2004 as Instrument No. 17888457 of Official Records.

Dated:	June 28, 2004
Trustor:	J W Equities, LLC
Trustee:	Prlap, Inc.
Beneficiary:	Bank of America, N.A.

(Affects a portion of Tract One)

31. Terms and provisions of an unrecorded lease dated July 06, 2004, by and between J. W. Equities, LLC as lessor and Lawson-Hawks Insurance Agency as lessee, as disclosed by a Memorandum of Lease and Subordination Agreement recorded October 07, 2005 as Instrument No. 18615023 of Official Records.

Defects, liens, encumbrances or other matters affecting the leasehold estate, whether or not shown by the public records are not shown herein.

(Affects A portion of Tract One)

32. The terms and provisions contained in the document entitled "Agreement Establishing Chemical Use Restriction" recorded April 24, 2006 as Instrument No. 18898959 of Official Records.

(Affects Tract One)

33. A Deed of Trust to secure an original indebtedness of $1,000,000.00 recorded October 30, 2012 as Instrument No. 21922675 of Official Records.

Dated:	October 10, 2012
Trustor:	1001 Shoreline LLC, a California limited liability company
Trustee:	First American Title Company, a California corporation
Beneficiary:	Matthew Friedrich, Trustee of the Payton Potter Irrevocable Trust

(Affects a portion of Tract One)

According to the public records, the beneficial interest under the deed of trust was assigned to Matthew Friedrich, Trustee of the Payton Potter Irrevocable Trust as to an undivided 44.5% interest, John Potter and Kristine Potter, Trustees of the John Potter and Kristine Potter Revocable trust dated January 16, 2004 as to an undivided 42.2% interest and Christian Keith and Britt Keith, husband and wife as community property as to an undivided 13.3% interest by assignment recorded April 08, 2014 as Instrument No. 22562538 of Official Records.

A document recorded April 08, 2014 as Instrument No. 22562539, of Official Records provides that the Deed of Trust/Mortgage or the obligation secured thereby has been modified.

A document recorded August 07, 2014 as Instrument No. 22673310 of Official Records provides that the lien or charge of the deed of trust was subordinated to the lien or charge of the deed of trust recorded August 07, 2014 as Instrument No. 22673309 of Official Records.

34. Terms and provisions of an unrecorded lease dated February 04, 2013, by and between Manford J. Trees and Audrey J. Trees, Co-Trustees under The Manford and Audrey Trees Living Trust Agreement dated March 3, 1980 as lessor and GTE Mobilnet of California Limited Partnership d/b/a Verizon Wireless as lessee, as disclosed by a Memorandum of Option and Land Lease Agreement recorded February 15, 2013 as Instrument No. 22095740 of Official Records.

Defects, liens, encumbrances or other matters affecting the leasehold estate, whether or not shown by the public records are not shown herein.

(Affects A portion of Tract One)

35. A Deed of Trust to secure an original indebtedness of $2,200,000.00 recorded August 07, 2014 as Instrument No. 22673309 of Official Records.

Dated:	July 25, 2014
Trustor:	1001 Shoreline, LLC, a California limited liability company
Trustee:	First American Title Insurance Company
Beneficiary:	John Potter and Kristine Potter Revocable Trust dated January 16, 2004

36. Terms and provisions of an unrecorded lease dated January 21, 2016, by and between Calvano/CRP Mountain View Owner, L.L.C as lessor and GTE Mobilnet of California Limited Partnership d/b/a Verizon Wireless as lessee, as disclosed by a Memorandum of Lease recorded February 11, 2016 as Instrument No. 23219412 of Official Records.

Defects, liens, encumbrances or other matters affecting the leasehold estate, whether or not shown by the public records are not shown herein.

(Affects A portion of Parcel A of Tract One)

37. Terms and provisions of an unrecorded lease dated June 16, 2015, by and between GTE Mobilnet of California Limited Partnership, a California limited partnership, d/b/a Verizon Wireless as lessor and ATC Sequoia LLC, a Delaware limited liability company as lessee, as disclosed by a Memorandum of Lease recorded July 24, 2015 as Instrument No. 23032282 of Official Records.

Defects, liens, encumbrances or other matters affecting the leasehold estate, whether or not shown by the public records are not shown herein.

(Affects A portion of Parcel A of Tract One)

38. A Deed of Trust to secure an original indebtedness of $66,700,000.00 recorded March 01, 2016 as Instrument No. 23232532 of Official Records.

Dated:	February 29, 2016
Trustor:	Calvano/CRP Mountain View Owner, L.L.C., a Delaware limited liability company
Trustee:	Fidelity National Title Insurance Company
Beneficiary:	U.S. Bank National Association, a national banking association

The above deed of trust states that it is a construction deed of trust.

A document recorded July 15, 2016 as Instrument No. 23366896, of Official Records provides that the Deed of Trust/Mortgage or the obligation secured thereby has been modified.

39. Any statutory lien for labor or materials arising by reason of a work of improvement, as disclosed by a document recorded March 01, 2016 as Instrument No. 23232532 of Official Records.

40. A financing statement recorded March 01, 2016 as Instrument No. 23232533 of Official Records.

Debtor:	Calvano/CRP Mountain View Owner, L.L.C.
Secured party:	U.S. Bank National Association

41. A financing statement recorded March 01, 2016 as Instrument No. 23232534 of Official Records.

Debtor:	Calvano/CRP Mountain View Owner, L.L.C.
Secured party:	U.S. Bank National Association

An amendment to the financing statement was recorded July 15, 2016 as Instrument No. 23366897 of Official Records.

An amendment to the financing statement was recorded November 08, 2016 as Instrument No. 23490372 of Official Records.

42. Terms and provisions of an unrecorded lease dated December 17, 2016, by and between Calvano/CRP Mountain View Owner, L.L.C., a Delaware limited liability company as lessor and Google Inc., a Delaware corporation as lessee, as disclosed by a Memorandum of Lease recorded April 20, 2016 as Instrument No. 23281562 of Official Records.

Defects, liens, encumbrances or other matters affecting the leasehold estate, whether or not shown by the public records are not shown herein.

(Affects Tract One and Tract Two)

43. The terms and provisions contained in the document entitled "Memorandum of Agreement Regarding Lease and Purchase Options" recorded April 20, 2015 as Instrument No. 23281563 of Official Records. By and between Calvano/CRP Mountain View Owner, L.L.C., a Delaware limited liability company and Google Inc., a Delaware corporation.

(Affects Tract One and Tract Two)

44. An easement shown or dedicated on the map filed or recorded May 11, 2016 in Book 892, Page 14 through 20 of Maps

For:	Emergency vehicle access and incidental purposes.

(Affects Tract One)

45. An easement for state utilities, landscaping irrigation mainline, drainage and maintenance purpose and incidental purposes, recorded July 15, 2016 as Instrument No. 23366895 of Official Records.

In Favor of: The State of California
Affects: As described therein

(Affects Tract Two)

46. Abutter's rights of ingress and egress to or from adjacent state freeway have been relinquished in the document recorded July 15, 2016 as Instrument No. 23366895 of Official Records.

(Affects Tract Two)

47. The terms and provisions contained in the document entitled "Stormwater Management Facilities Operation and Maintenance Agreement" recorded August 30, 2017 as Instrument No. 23741562 of Official Records. By and between Calvano/CRP Mountain View Owner, L.L.C., a Delaware limited liability company and City of Mountain View, a California charter city and municipal corporation.

(Affects Parcel A of Tract One)

48. Any facts, rights, interests or claims which would be disclosed by a correct ALTA/NSPS survey.

49. Rights of parties in possession.

INFORMATIONAL NOTES

1. According to the latest available equalized assessment roll in the office of the county tax assessor, there is located on the land a Commercial Structure known as 3675 Mount Diablo Boulevard, Mountain View, California.

2. According to the public records, there has been no conveyance of the land within a period of twenty four months prior to the date of this report, except as follows:

   A document recorded July 15, 2016 as Instrument No. 23366895 of Official Records.

From:	The State of California
To:	Calvano/CRP Mountain View Owner, L.L.C., a Delaware limited liability company

   (Affects Tract Two)

3. This preliminary report/commitment was prepared based upon an application for a policy of title insurance that identified land by street address or assessor's parcel number only. It is the responsibility of the applicant to determine whether the land referred to herein is in fact the land that is to be described in the policy or policies to be issued.

The map attached, if any, may or may not be a survey of the land depicted hereon. First American Title Insurance Company expressly disclaims any liability for loss or damage which may result from reliance on this map except to the extent coverage for such loss or damage is expressly provided by the terms and provisions of the title insurance policy, if any, to which this map is attached.

*****To obtain wire instructions for deposit of funds to your escrow file please contact your Escrow Officer.******

CONDITIONS

1. **DEFINITIONS**
(a)"Mortgage" means mortgage, deed of trust or other security instrument.
(b)"Public Records" means title records that give constructive notice of matters affecting the title according to the state law where the land is located.

2. **LATER DEFECTS**
The Exceptions in Schedule B - Section Two may be amended to show any defects, liens or encumbrances that appear for the first time in the public records or are created or attached between the Commitment Date and the date on which all of the Requirements (a) and (c) of Schedule B - Section One are met. We shall have no liability to you because of this amendment.

3. **EXISTING DEFECTS**
If any defects, liens or encumbrances existing at Commitment Date are not shown in Schedule B, we may amend Schedule B to show them. If we do amend Schedule B to show these defects, liens or encumbrances, we shall be liable to you according to Paragraph 4 below unless you knew of this information and did not tell us about it in writing.

4. **LIMITATION OF OUR LIABILITY**
Our only obligation is to issue to you the Policy referred to in this Commitment, when you have met its Requirements. If we have any liability to you for any loss you incur because of an error in this Commitment, our liability will be limited to your actual loss caused by your relying on this Commitment when you acted in good faith to:

comply with the Requirements shown in Schedule B - Section One
or
eliminate with our written consent any Exceptions shown in Schedule B - Section Two.

We shall not be liable for more than the Policy Amount shown in Schedule A of this Commitment and our liability is subject to the terms of the Policy form to be issued to you.

5. **CLAIMS MUST BE BASED ON THIS COMMITMENT**
Any claim, whether or not based on negligence, which you may have against us concerning the title to the land must be based on this commitment and is subject to its terms.

First American Title

Privacy Information

We Are Committed to Safeguarding Customer Information

In order to better serve your needs now and in the future, we may ask you to provide us with certain information. We understand that you may be concerned about what we will do with such information - particularly any personal or financial information. We agree that you have a right to know how we will utilize the personal information you provide to us. Therefore, together with our subsidiaries we have adopted this Privacy Policy to govern the use and handling of your personal information.

Applicability

This Privacy Policy governs our use of the information that you provide to us. It does not govern the manner in which we may use information we have obtained from any other source, such as information obtained from a public record or from another person or entity. First American has also adopted broader guidelines that govern our use of personal information regardless of its source. First American calls these guidelines its Fair Information Values.

Types of Information

Depending upon which of our services you are utilizing, the types of nonpublic personal information that we may collect include:

- Information we receive from you on applications, forms and in other communications to us, whether in writing, in person, by telephone or any other means;
- Information about your transactions with us, our affiliated companies, or others; and
- Information we receive from a consumer reporting agency.

Use of Information

We request information from you for our own legitimate business purposes and not for the benefit of any nonaffiliated party. Therefore, we will not release your information to nonaffiliated parties except: (1) as necessary for us to provide the product or service you have requested of us; or (2) as permitted by law. We may, however, store such information indefinitely, including the period after which any customer relationship has ceased. Such information may be used for any internal purpose, such as quality control efforts or customer analysis. We may also provide all of the types of nonpublic personal information listed above to one or more of our affiliated companies. Such affiliated companies include financial service providers, such as title insurers, property and casualty insurers, and trust and investment advisory companies, or companies involved in real estate services, such as appraisal companies, home warranty companies and escrow companies. Furthermore, we may also provide all the information we collect, as described above, to companies that perform marketing services on our behalf, on behalf of our affiliated companies or to other financial institutions with whom we or our affiliated companies have joint marketing agreements.

Former Customers

Even if you are no longer our customer, our Privacy Policy will continue to apply to you.

Confidentiality and Security

We will use our best efforts to ensure that no unauthorized parties have access to any of your information. We restrict access to nonpublic personal information about you to those individuals and entities who need to know that information to provide products or services to you. We will use our best efforts to train and oversee our employees and agents to ensure that your information will be handled responsibly and in accordance with this Privacy Policy and First American's Fair Information Values. We currently maintain physical, electronic, and procedural safeguards that comply with federal regulations to guard your nonpublic personal information.

Information Obtained Through Our Web Site

First American Financial Corporation is sensitive to privacy issues on the Internet. We believe it is important you know how we treat the information about you we receive on the Internet.

In general, you can visit First American or its affiliates' Web sites on the World Wide Web without telling us who you are or revealing any information about yourself. Our Web servers collect the domain names, not the e-mail addresses, of visitors. This information is aggregated to measure the number of visits, average time spent on the site, pages viewed and similar information. First American uses this information to measure the use of our site and to develop ideas to improve the content of our site.

There are times, however, when we may need information from you, such as your name and email address. When information is needed, we will use our best efforts to let you know at the time of collection how we will use the personal information. Usually, the personal information we collect is used only by us to respond to your inquiry, process an order or allow you to access specific account/profile information. If you choose to share any personal information with us, we will only use it in accordance with the policies outlined above.

Business Relationships

First American Financial Corporation's site and its affiliates' sites may contain links to other Web sites. While we try to link only to sites that share our high standards and respect for privacy, we are not responsible for the content or the privacy practices employed by other sites.

Cookies

Some of First American's Web sites may make use of "cookie" technology to measure site activity and to customize information to your personal tastes. A cookie is an element of data that a Web site can send to your browser, which may then store the cookie on your hard drive.

FirstAm.com uses stored cookies. The goal of this technology is to better serve you when visiting our site, save you time when you are here and to provide you with a more meaningful and productive Web site experience.

Fair Information Values

Fairness We consider consumer expectations about their privacy in all our businesses. We only offer products and services that assure a favorable balance between consumer benefits and consumer privacy.

Public Record We believe that an open public record creates significant value for society, enhances consumer choice and creates consumer opportunity. We actively support an open public record and emphasize its importance and contribution to our economy.

Use We believe we should behave responsibly when we use information about a consumer in our business. We will obey the laws governing the collection, use and dissemination of data.

Accuracy We will take reasonable steps to help assure the accuracy of the data we collect, use and disseminate. Where possible, we will take reasonable steps to correct inaccurate information. When, as with the public record, we cannot correct inaccurate information, we will take all reasonable steps to assist consumers in identifying the source of the erroneous data so that the consumer can secure the required corrections.

Education We endeavor to educate the users of our products and services, our employees and others in our industry about the importance of consumer privacy. We will instruct our employees on our fair information values and on the responsible collection and use of data. We will encourage others in our industry to collect and use information in a responsible manner.

Security We will maintain appropriate facilities and systems to protect against unauthorized access to and corruption of the data we maintain.

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EXHIBIT A
LIST OF PRINTED EXCEPTIONS AND EXCLUSIONS (BY POLICY TYPE)

1. CALIFORNIA LAND TITLE ASSOCIATION STANDARD COVERAGE POLICY - 1990
SCHEDULE B

EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records. Proceedings by a public agency which may result in taxes or assessments, or notice of such proceedings, whether or not shown by the records of such agency or by the public records.
2. Any facts, rights, interests, or claims which are not shown by the public records but which could be ascertained by an inspection of the land or which may be asserted by persons in possession thereof.
3. Easements, liens or encumbrances, or claims thereof, which are not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by the public records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the public records.

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building and zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating to (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
   (b) Any governmental police power not excluded by (a) above, except to the extent that a notice of the exercise thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.
3. Defects, liens, encumbrances, adverse claims or other matters:
   (a) whether or not recorded in the public records at Date of Policy, but created, suffered, assumed or agreed to by the insured claimant;
   (b) not known to the Company, not recorded in the public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;
   (c) resulting in no loss or damage to the insured claimant;
   (d) attaching or created subsequent to Date of Policy; or
   (e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the insured mortgage or for the estate or interest insured by this policy.
4. Unenforceability of the lien of the insured mortgage because of the inability or failure of the insured at Date of Policy, or the inability or failure of any subsequent owner of the indebtedness, to comply with applicable "doing business" laws of the state in which the land is situated.
5. Invalidity or unenforceability of the lien of the insured mortgage, or claim thereof, which arises out of the transaction evidenced by the insured mortgage and is based upon usury or any consumer credit protection or truth in lending law.
6. Any claim, which arises out of the transaction vesting in the insured the estate or interest insured by their policy or the transaction creating the interest of the insured lender, by reason of the operation of federal bankruptcy, state insolvency or similar creditors' rights laws.

2. AMERICAN LAND TITLE ASSOCIATION OWNER'S POLICY FORM B - 1970
SCHEDULE OF EXCLUSIONS FROM COVERAGE

1. Any law, ordinance or governmental regulation (including but not limited to building and zoning ordinances) restricting or regulating or prohibiting the occupancy, use or enjoyment of the land, or regulating the character, dimensions or location of any improvement now or hereafter erected on the land, or prohibiting a separation in ownership or a reduction in the dimensions of area of the land, or the effect of any violation of any such law, ordinance or governmental regulation.
2. Rights of eminent domain or governmental rights of police power unless notice of the exercise of such rights appears in the public records at Date of Policy.
3. Defects, liens, encumbrances, adverse claims, or other matters (a) created, suffered, assumed or agreed to by the insured claimant; (b) not known to the Company and not shown by the public records but known to the insured claimant either at Date of Policy or at the date such claimant acquired an estate or interest insured by this policy and not disclosed in writing by the insured claimant to the Company prior to the date such insured claimant became an insured hereunder; (c) resulting in no loss or damage to the insured claimant; (d) attaching or created subsequent to Date of Policy; or (e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the estate or interest insured by this policy.

3. AMERICAN LAND TITLE ASSOCIATION OWNER'S POLICY FORM B - 1970
WITH REGIONAL EXCEPTIONS

When the American Land Title Association policy is used as a Standard Coverage Policy and not as an Extended Coverage Policy the exclusions set forth in paragraph 2 above are used and the following exceptions to coverage appear in the policy.

SCHEDULE B

This policy does not insure against loss or damage by reason of the matters shown in parts one and two following:
Part One

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records.
2. Any facts, rights, interests, or claims which are not shown by the public records but which could be ascertained by an inspection of said land or by making inquiry of persons in possession thereof.
3. Easements, claims of easement or encumbrances which are not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by public records.
5. Unpatented mining claims; reservations or exceptions in patents or in Acts authorizing the issuance thereof; water rights, claims or title to water.
6. Any lien, or right to a lien, for services, labor or material heretofore or hereafter furnished, imposed by law and not shown by the public records.

4. AMERICAN LAND TITLE ASSOCIATION LOAN POLICY - 1970
WITH A.L.T.A. ENDORSEMENT FORM 1 COVERAGE
SCHEDULE OF EXCLUSIONS FROM COVERAGE

1. Any law, ordinance or governmental regulation (including but not limited to building and zoning ordinances) restricting or regulating or prohibiting the occupancy, use or enjoyment of the land, or regulating the character, dimensions or location of any improvement now or hereafter erected on the land, or prohibiting a separation in ownership or a reduction in the dimensions or area of the land, or the effect of any violation of any such law ordinance or governmental regulation.
2. Rights of eminent domain or governmental rights of police power unless notice of the exercise of such rights appears in the public records at Date of Policy.
3. Defects, liens, encumbrances, adverse claims, or other matters (a) created, suffered, assumed or agreed to by the insured claimant, (b) not known to the Company and not shown by the public records but known to the insured claimant either at Date of Policy or at the date such claimant acquired an estate or interest insured by this policy or acquired the insured mortgage and not disclosed in writing by the insured claimant to the Company prior to the date such insured claimant became an insured hereunder, (c) resulting in no loss or damage to the insured claimant; (d) attaching or created subsequent to Date of Policy (except to the extent insurance is afforded herein as to any statutory lien for labor or material or to the extent insurance is afforded herein as to assessments for street improvements under construction or completed at Date of Policy).
4. Unenforceability of the lien of the insured mortgage because of failure of the insured at Date of Policy or of any subsequent owner of the indebtedness to comply with applicable "doing business" laws of the state in which the land is situated.

5. AMERICAN LAND TITLE ASSOCIATION LOAN POLICY - 1970
WITH REGIONAL EXCEPTIONS

When the American Land Title Association Lenders Policy is used as a Standard Coverage Policy and not as an Extended Coverage Policy, the exclusions set forth in paragraph 4 above are used and the following exceptions to coverage appear in the policy.

SCHEDULE B

This policy does not insure against loss or damage by reason of the matters shown in parts one and two following:
Part One

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records.
2. Any facts, rights, interests, or claims which are not shown by the public records but which could be ascertained by an inspection of said land or by making inquiry of persons in possession thereof.
3. Easements, claims of easement or encumbrances which are not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by public records.
5. Unpatented mining claims; reservations or exceptions in patents or in Acts authorizing the issuance thereof; water rights, claims or title to water.
6. Any lien, or right to a lien, for services, labor or material theretofore or hereafter furnished, imposed by law and not shown by the public records.

6. AMERICAN LAND TITLE ASSOCIATION LOAN POLICY - 1992
WITH A.L.T.A. ENDORSEMENT FORM 1 COVERAGE
EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building and zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating to (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy;
   (b) Any governmental police power not excluded by (a) above, except to the extent that a notice of the exercise thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.

2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.
3. Defects, liens, encumbrances, adverse claims, or other matters:
(a) whether or not recorded in the public records at Date of Policy, but created, suffered, assumed or agreed to by the insured claimant;
(b) not known to the Company, not recorded in the public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;
(c) resulting in no loss or damage to the insured claimant;
(d) attaching or created subsequent to Date of Policy (except to the extent that this policy insures the priority of the lien of the insured mortgage over any statutory lien for services, labor or material or the extent insurance is afforded herein as to assessments for street improvements under construction or completed at date of policy); or
(e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the insured mortgage.
4. Unenforceability of the lien of the insured mortgage because of the inability or failure of the insured at Date of Policy, or the inability or failure of any subsequent owner of the indebtedness, to comply with the applicable "doing business" laws of the state in which the land is situated.
5. Invalidity or unenforceability of the lien of the insured mortgage, or claim thereof, which arises out of the transaction evidenced by the insured mortgage and is based upon usury or any consumer credit protection or truth in lending law.
6. Any statutory lien for services, labor or materials (or the claim of priority of any statutory lien for services, labor or materials over the lien of the insured mortgage) arising from an improvement or work related to the land which is contracted for and commenced subsequent to Date of Policy and is not financed in whole or in part by proceeds of the indebtedness secured by the insured mortgage which at Date of Policy the insured has advanced or is obligated to advance.
7. Any claim, which arises out of the transaction creating the interest of the mortgagee insured by this policy, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that is based on:
(i) the transaction creating the interest of the insured mortgagee being deemed a fraudulent conveyance or fraudulent transfer; or
(ii) the subordination of the interest of the insured mortgagee as a result of the application of the doctrine of equitable subordination; or
(iii) the transaction creating the interest of the insured mortgagee being deemed a preferential transfer except where the preferential transfer results from the failure:
(a) to timely record the instrument of transfer; or
(b) of such recordation to impart notice to a purchaser for value or a judgment or lien creditor.

7. AMERICAN LAND TITLE ASSOCIATION LOAN POLICY - 1992 WITH REGIONAL EXCEPTIONS

When the American Land Title Association policy is used as a Standard Coverage Policy and not as an Extended Coverage Policy the exclusions set forth in paragraph 6 above are used and the following exceptions to coverage appear in the policy.

SCHEDULE B

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records.
2. Any facts, rights, interests, or claims which are not shown by the public records but which could be ascertained by an inspection of said land or by making inquiry of persons in possession thereof.
3. Easements, claims of easement or encumbrances which are not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by public records.
5. Unpatented mining claims; reservations or exceptions in patents or in Acts authorizing the issuance thereof; water rights, claims or title to water.
6. Any lien, or right to a lien, for services, labor or material theretofore or hereafter furnished, imposed by law and not shown by the public records.

8. AMERICAN LAND TITLE ASSOCIATION OWNER'S POLICY - 1992 EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building and zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating to (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
(b) Any governmental police power not excluded by (a) above, except to the extent that a notice of the exercise thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.
3. Defects, liens, encumbrances, adverse claims, or other matters:
(a) created, suffered, assumed or agreed to by the insured claimant;
(b) not known to the Company, not recorded in the public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;
(c) resulting in no loss or damage to the insured claimant;
(d) attaching or created subsequent to Date of Policy; or

(e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the estate or interest insured by this policy.

4. Any claim, which arises out of the transaction vesting in the insured the estate or interest insured by this policy, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that is based on:
(i) the transaction creating the estate or interest insured by this policy being deemed a fraudulent conveyance or fraudulent transfer; or
(ii) the transaction creating the estate or interest insured by this policy being deemed a preferential transfer except where the preferential transfer results from the failure:
(a) to timely record the instrument of transfer; or
(b) of such recordation to impart notice to a purchaser for value or a judgment or lien creditor.

9. AMERICAN LAND TITLE ASSOCIATION OWNER'S POLICY - 1992
WITH REGIONAL EXCEPTIONS

When the American Land Title Association policy is used as a Standard Coverage Policy and not as an Extended Coverage Policy the exclusions set forth in paragraph 8 above are used and the following exceptions to coverage appear in the policy.

SCHEDULE B

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:
Part One:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records.
2. Any facts, rights, interests, or claims which are not shown by the public records but which could be ascertained by an inspection of said land or by making inquiry of persons in possession thereof.
3. Easements, claims of easement or encumbrances which are not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by public records.
5. Unpatented mining claims; reservations or exceptions in patents or in Acts authorizing the issuance thereof; water rights, claims or title to water.
6. Any lien, or right to a lien, for services, labor or material theretofore or hereafter furnished, imposed by law and not shown by the public records.

ALTA RESIDENTIAL TITLE INSURANCE POLICY (6-1-87)
EXCLUSIONS

In addition to the Exceptions in Schedule B, you are not insured against loss, costs, attorneys' fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of any law or government regulation. This includes building and zoning ordinances and also laws and regulations concerning:
   (a) and use
   (b) improvements on the land
   (c) and division
   (d) environmental protection

   This exclusion does not apply to violations or the enforcement of these matters which appear in the public records at Policy Date.
   This exclusion does not limit the zoning coverage described in Items 12 and 13 of Covered Title Risks.
2. The right to take the land by condemning it, unless:
   (a) a notice of exercising the right appears in the public records on the Policy Date
   (b) the taking happened prior to the Policy Date and is binding on you if you bought the land without knowing of the taking
3. Title Risks:
   (a) that are created, allowed, or agreed to by you
   (b) that are known to you, but not to us, on the Policy Date -- unless they appeared in the public records
   (c) that result in no loss to you
   (d) that first affect your title after the Policy Date -- this does not limit the labor and material lien coverage in Item 8 of Covered Title Risks
4. Failure to pay value for your title.
5. Lack of a right:
   (a) to any land outside the area specifically described and referred to in Item 3 of Schedule A OR
   (b) in streets, alleys, or waterways that touch your land
   This exclusion does not limit the access coverage in Item 5 of Covered Title Risks.

11. EAGLE PROTECTION OWNER'S POLICY

CLTA HOMEOWNER'S POLICY OF TITLE INSURANCE - 1998
ALTA HOMEOWNER'S POLICY OF TITLE INSURANCE - 1998

Covered Risks 14 (Subdivision Law Violation). 15 (Building Permit). 16 (Zoning) and 18 (Encroachment of boundary walls or fences) are subject to Deductible Amounts and Maximum Dollar Limits of Liability

EXCLUSIONS

In addition to the Exceptions in Schedule B, you are not insured against loss, costs, attorneys' fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of any law or government regulation. This includes ordinances, laws and regulations concerning:
   a. building
   b. zoning
   c. land use
   d. improvements on the land
   e. land division
   f. environmental protection

   This exclusion does not apply to violations or the enforcement of these matters if notice of the violation or enforcement appears in the Public Records at the Policy Date.
   This exclusion does not limit the coverage described in Covered Risk 14, 15, 16, 17 or 24.
2. The failure of Your existing structures, or any part of them, to be constructed in accordance with applicable building codes. This Exclusion does not apply to violations of building codes if notice of the violation appears in the Public Records at the Policy Date.
3. The right to take the Land by condemning it, unless:
   a. a notice of exercising the right appears in the Public Records at the Policy Date; or
   b. the taking happened before the Policy Date and is binding on You if You bought the Land without Knowing of the taking.
4. Risks:
   a. that are created, allowed, or agreed to by You, whether or not they appear in the Public Records;
   b. that are Known to You at the Policy Date, but not to Us, unless they appear in the Public Records at the Policy Date;
   c. that result in no loss to You; or
   d. that first occur after the Policy Date - this does not limit the coverage described in Covered Risk 7, 8.d, 22, 23, 24 or 25.
5. Failure to pay value for Your Title.
6. Lack of a right:
   a. to any Land outside the area specifically described and referred to in paragraph 3 of Schedule A; and
   b. in streets, alleys, or waterways that touch the Land.
   This exclusion does not limit the coverage described in Covered Risk 11 or 18.

12. THIRD GENERATION EAGLE LOAN POLICY AMERICAN LAND TITLE ASSOCIATION EXPANDED COVERAGE RESIDENTIAL LOAN POLICY (1/01/08)

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to (i) the occupancy, use, or enjoyment of the Land; (ii) the character, dimensions, or location of any improvement erected on the Land; (iii) the subdivision of land; or(iv) environmental protection; or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.
   (b)Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
   (a) created, suffered, assumed or agreed to by the Insured Claimant;
   (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
   (c) resulting in no loss or damage to the Insured Claimant;
   (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27 or 28); or
   (e) resulting in loss or damage which would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury, or any consumer credit protection or truth-in-lending law. This Exclusion does not modify or limit the coverage provided in Covered Risk 26.
6. Any claim of invalidity, unenforceability or lack of priority of the lien of the Insured Mortgage as to Advances or modifications made after the Insured has Knowledge that the vestee shown in Schedule A is no longer the owner of the estate or interest covered by this policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11.
7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching subsequent to Date of Policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11(b) or 25.
8. The failure of the residential structure, or any portion of it, to have been constructed before, on or after Date of Policy in accordance with applicable building codes. This Exclusion does not modify or limit the coverage provided in Covered Risk 5 or 6.

13. AMERICAN LAND TITLE ASSOCIATION LOAN POLICY - 2006
EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or

expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to

   (i) the occupancy, use, or enjoyment of the Land;

   (ii) the character, dimensions, or location of any improvement erected on the Land;

   (iii) the subdivision of land; or

   (iv) environmental protection;

   or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.

   (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.

2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.

3. Defects, liens, encumbrances, adverse claims, or other matters

   (a) created, suffered, assumed, or agreed to by the Insured Claimant;

   (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;

   (c) resulting in no loss or damage to the Insured Claimant;

   (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 13, or 14); or

   (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.

4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.

5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law.

6. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is

   (a) a fraudulent conveyance or fraudulent transfer, or

   (b) a preferential transfer for any reason not stated in Covered Risk 13(b) of this policy.

7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the Insured Mortgage in the Public Records. This Exclusion does not modify or limit the coverage provided under Covered Risk 11(b).

14. AMERICAN LAND TITLE ASSOCIATION LOAN POLICY - 2006 WITH REGIONAL EXCEPTIONS

When the American Land Title Association policy is used as a Standard Coverage Policy and not as an Extended Coverage Policy the exclusions set forth in paragraph 13 above are used and the following exceptions to coverage appear in the policy.

SCHEDULE B

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.

15. AMERICAN LAND TITLE ASSOCIATION OWNER'S POLICY - 2006 EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to

   (i) the occupancy, use, or enjoyment of the Land;

   (ii) the character, dimensions, or location of any improvement erected on the Land;

   (iii) the subdivision of land; or

   (iv) environmental protection;or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.

(b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.

2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.

3. Defects, liens, encumbrances, adverse claims, or other matters

(a) created, suffered, assumed, or agreed to by the Insured Claimant;

(b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;

(c) resulting in no loss or damage to the Insured Claimant;

(d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risks 9 and 10); or

(e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Title.

4. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors rights laws, that the transaction vesting the Title as shown in Schedule A, is

(a) a fraudulent conveyance or fraudulent transfer; or

(b) a preferential transfer for any reason not stated in Covered Risk 9 of this policy.

5. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the deed or other instrument of transfer in the Public Records that vests Title as shown in Schedule A.

16. AMERICAN LAND TITLE ASSOCIATION OWNER'S POLICY - 2006 WITH REGIONAL EXCEPTIONS

When the American Land Title Association policy is used as a Standard Coverage Policy and not as an Extended Coverage Policy the exclusions set forth in paragraph 15 above are used and the following exceptions to coverage appear in the policy.

SCHEDULE B

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.

APPENDIX H
HISTORICAL DOCUMENTS

Addendum to

OLIN MESA CLOSURE PLAN

1130 TERRA BELLA AVENUE

MOUNTAIN VIEW, CA

II. FINAL SITE INSPECTION AND ASSESSMENT:

E. A WIPE SAMPLE ANALYSIS WAS PERFORMED ACCORDING TO THE WIPE SAMPLE PLAN (ATTACHMENT V). THE RESULTS OF THE INITIAL ANALYSIS (ATTACHMENT VI) AND FINAL ANALYSIS (ATTACHMENT VII) AND RETEST **(ATTACHMENT IX)** ARE THE FOLLOWING:

BACKGROUND SAMPLES

COPPER	53.7 218 121	AVE: 130.9
ARSENIC	<0.5	
NICKEL	5.8	
CYANIDES, TOTAL	<2.0	
VOA	SEE ATTACHMENT VI	

AREA SAMPLES

	INITIAL	FINAL
AREA #1		
COPPER	149	23
NICKEL	5.7	NO RETEST
AREA #2		
COPPER	739	CONCRETE REMOVED
NICKEL	50.2	CONCRETE REMOVED
AREA #3A		
COPPER	297	7.2
CYANIDE	<2.0	NO RETEST
NICKEL	239	ND
ARSENIC	<0.5	NO RETEST

AREA #3B		
COPPER	228	55
CYANIDE	<2.0	NO RETEST
NICKEL	373	76
		RETEST
		12.3
ARSENIC	<0.5	NO RETEST
AREA #3C		
COPPER	86.1	24
CYANIDE	<2.0	NO RETEST
NICKEL	21.6	ND
ARSENIC	<0.5	NO RETEST
AREA #5		
COPPER	507	22
AREA #6		
VOA	SEE ATTACHMENT VI	NO RETEST
AREA #7		
COPPER	2960	32
AREA #8		
COPPER	1370	CONCRETE REMOVED
AREA #9		
COPPER	306	86
AREA #10		
pH	7 ATTACHMENT VIII	NO RETEST
AREA #11		
pH	7 ATTACHMENT VIII	NO RETEST

III. REMEDIATION:

F. THE SUMP AREA WAS TESTED (ATTACHMENT V), THE SUMP CONCRETE WAS CHIPPED OUT AND DISPOSED. SAMPLES WERE TAKEN OF THE SOIL BENEATH THE SUMP AREA AND TESTED FOR COPPER CONTAMINATION LEVELS. SOIL SAMPLE ANALYSIS SHOWED 340 MG/KG COPPER (ATTACHMENT VIII) AND **2.1 MG/L (ATTACHMENT X)**. NO FURTHER ACTION IS REQUIRED BASED ON THE SOIL ANALYSIS.

I. FOR WIPE SAMPLES DETECT CONTAMINATION ABOVE ACTION LEVELS, AFTER DECONTAMINATION WIPE SAMPLES WERE OBTAINED TO VERIFY DECONTAMINATION WAS COMPLETE (ATTACHMENT VII **& ATTACHMENT IX**).

J. ALL CONCRETE AND SOIL WILL BE REMOVED BY TUESDAY NOVEMBER 5, 1989.

IV. CONCLUSIONS

A. THERE ARE NO ENVIRONMENTAL OR HEALTH RISK POSED BY THE FACILITY AFTER COMPLETION OF REMEDIATION. OLIN MESA DID NOT EXPERIENCE ANY REPORTABLE SPILLS IN THE HISTORY OF THE COMPANY. IN SEPTEMBER 1988, A PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT AND GROUNDWATER INVESTIGATION WAS COMPLETED. NO DETECTABLE CONCENTRATIONS OF SEMIVOLATILE ORGANIC COMPOUNDS WERE REPORTED. TRICHLOROETHYLENE (TCE) AND TRANS-1,2-DICHLOROETHYLENE (T-1,2-DCE) WERE DETECTED. OLIN MESA USES RESEARCH QUANTITIES OF TCE AND HAS NEVER USED DCE. BECAUSE TCE AND DCE WERE DETECTED IN THE UPGRADIENT WELL, IT APPEARS THESE COMPOUNDS ORIGINATED FROM AN OFFSITE SOURCE.

THE FINAL WIPE SAMPLE ANALYSIS SHOWED THAT ALL AREA SAMPLES WERE BELOW THE BACKGROUND SAMPLES FOR NICKEL AND COPPER EXCEPT AT AREA #3B WHERE THE FLOOR HAS BEEN RECLEANED AND AND A **RETEST WAS CONDUCTED 10/23/89. THE RESULTS ARE SUBMITTED WITH THIS ADDIENDUM.**

APPENDIX J
QA REPORTS

EPRO Services Inc.
(800) 882-1896
eproinc.com

QA REPORT

Project: *1001 North Shoreline, Mountain View, CA.*
VMS below slab remediation project
Date of Visit: *December 13, 2017*
Contractor: *ACT Inc.*
Report by: David Devine/NorCal Technical Representative
Subject: *VMS* / QA Observation

The following items are based on brief and limited observations of certain selected locations: all similar locations may have not been observed. Other issues of equal or greater importance may not be addressed at this time. These observations are the opinions of the author. Any recommendations are for consideration of the project team and are not directives to the project.

History: Epro contractor above requested a quality assurance observation of the Epro System III MB smoke testing for remediation at area 1 of 2 @ the first floor interior of this building.

FIELD REPORT

Observations:

1. The smoke test for this area was performed today prior to the installation of the e.shield 205 (PP) covering. All leaks found were repaired at this time and the membrane was covered and prepared for the new concrete. All coupon samples were @ 60+ dry mil. thickness as specified by Epro. Result=PASS.





1328 E Kellogg Drive Wichita, KS 67211
PO Box 347 Derby, KS 67037



2. Two areas near the footing at the north wall had some moisture present at this time. These areas were cleaned and the e. spray applied. The existing or new membrane was not installed in these areas.



Respectfully,

David Devine

David Devine/Epro Tech Rep. NorCal
Cell: 831-234-7508

Ref: eproshoreline12-13-2017

EPRO Services Inc.
(800) 882-1896
eproinc.com

QA REPORT

Project: *1001 North Shoreline, Mountain View, CA.*
VMS below slab remediation project
Date of Visit: *January 3, 2018*
Contractor: *ACT Inc.*
Report by: David Devine/NorCal Technical Representative
Subject: *VMS* / QA Observation

The following items are based on brief and limited observations of certain selected locations: all similar locations may have not been observed. Other issues of equal or greater importance may not be addressed at this time. These observations are the opinions of the author. Any recommendations are for consideration of the project team and are not directives to the project.

History: Epro contractor above requested a quality assurance observation of the Epro System III MB smoke testing for remediation at area 2 of 2 @ the first floor interior of this building.

FIELD REPORT

Observations:

1. The smoke test for this area was performed today prior to the installation of the e.shield 205 (PP) covering. All leaks found were repaired at this time and the membrane was covered and prepared for the new concrete. All coupon samples were @ 60+ dry mil. thickness as specified by Epro. Result=PASS.

2. Areas in each section were marked with paint where smoke was visible and remediated at this time. Area 2 ready for concrete installation.











Respectfully,

David Devine

David Devine/Epro Tech Rep. NorCal
Cell: 831-234-7508

Ref: eproshoreline1-3-2018

CITY OF MOUNTAIN VIEW
FIRE AND ENVIRONMENTAL SAFETY DIVISION
500 Castro Street • City Hall • 4th Floor • Mountain View, CA 94041-2010 • 650-903-6378

HAZARDOUS MATERIAL AND WASTE STORAGE PERMIT

THIS **FULL TERM** PERMIT EVIDENCES THAT THE BUSINESS NAMED HEREIN HAS PAID THE ANNUAL PERMIT FEE AND IS AUTHORIZED TO STORE HAZARDOUS MATERIALS AND HAZARDOUS WASTES IN QUANTITIES NOT EXCEEDING THE QUANTITY LIMITS INDICATED BELOW IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL CODES.

Permitted **Verizon Wireless - Hwy 101/85 (Relo)**
Facility **1062 Linda Vista Avenue**

Verizon Wireless - Hwy 101/85 (Relo)
255 Parkshore Drive
Folsom, CA 95630
Attn: Environmental Compliance

Date Issued: **6/15/2015**
Date Revised:
Date Expires: **5/1/2016**
Permit ID: **1217**

Jaymae Wentker
Jaymae Wentker, Fire Marshal

POST IN A CONSPICUOUS PLACE AT THE "PERMITTED FACILITY" SITE

HAZARDOUS MATERIALS STORED ON SITE

Hazard Class	Quantity Limit
Combustible Liquid	**132 Gal**
Corrosive Liquid	**50 Gal**

HAZARDOUS WASTE GENERATED ANNUALLY..... **0 Lbs**

CITY OF MOUNTAIN VIEW
FIRE AND ENVIRONMENTAL SAFETY DIVISION
500 Castro Street • City Hall • 4th Floor • Mountain View, CA 94041-2010 • 650-903-6378

ENVIRONMENTAL COMPLIANCE PLAN
Hazardous Materials Inventory

Facility ID:	1217
Updated:	6/15/2015

Business Name

Verizon Wireless - Hwy 101/85 (Relo)

State Facility ID: 43-004-001217

Facility Street Address

1062 Linda Vista Avenue

Map Location: 1

>> Map Location 1 <<

Diesel Fuel #2 (Cas #: **68476-34-6** EHS: **No**)

Hazard Class	Max.Daily Amt.	Storage Container	Temp.	Press.	Ann.Waste Amt.	Waste Code
Combustible Liquid	**132 Gal**	**Above Ground Tank**	**=Amb**	**=Amb**	**0**	**NA**

Chem Loc. Con. EPCRA	Trade Secret	Common Name	Hazmat Type	Radioactive	Curies	Physical State	Largest Container	Federal Hazard Categories	Avg. Daily Amt.	Days on Site
No	No	**Diesel Fuel #2**	Pure	No		Liquid	**132 gallon aboveground tank**	Fire	132 Gal	365

>> Map Location 2 <<

Lead Acid Battery (Cas #: **7664-93-9** EHS: **No**)

Hazard Class	Max.Daily Amt.	Storage Container	Temp.	Press.	Ann.Waste Amt.	Waste Code
Corrosive Liquid	**50 Gal**	**Other**	**=Amb**	**=Amb**	**0**	**NA**

Chem Loc. Con. EPCRA	Trade Secret	Common Name	Hazmat Type	Radioactive	Curies	Physical State	Largest Container	Federal Hazard Categories	Avg. Daily Amt.	Days on Site
No	No	**Lead Acid Battery**	Pure	No		Liquid	**50 gallon other**	Acute Health	50 Gal	365

****Total Hazardous Waste Produced Annually is 0.00 Lbs (0.00 Tons)**

CITY OF MOUNTAIN VIEW
FIRE AND ENVIRONMENTAL SAFETY DIVISION
500 Castro Street • City Hall • 4th Floor • Mountain View, CA 94041-2010 • 650-903-6378

HAZARDOUS MATERIAL AND WASTE STORAGE PERMIT

THIS **FULL TERM** PERMIT EVIDENCES THAT THE BUSINESS NAMED HEREIN HAS PAID THE ANNUAL PERMIT FEE AND IS AUTHORIZED TO STORE HAZARDOUS MATERIALS AND HAZARDOUS WASTES IN QUANTITIES NOT EXCEEDING THE QUANTITY LIMITS INDICATED BELOW IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL CODES.

Permitted **Oxigraf, Inc.**
Facility **1170 Terra Bella Avenue**

Oxigraf, Inc.
1170 Terra Bella Ave.
Mountain View, CA 94043
Attn: Jennifer Munoz

Date Issued: **7/27/2015**
Date Revised:
Date Expires: **5/1/2016**
Permit ID: **1195**

Jaymae Wentker
Jaymae Wentker, Fire Marshal

POST IN A CONSPICUOUS PLACE AT THE "PERMITTED FACILITY" SITE

HAZARDOUS MATERIALS STORED ON SITE

Hazard Class	Quantity Limit
Flammable Liquid	**5 Gal**
Nonflammable Gas	**4,879 Cu Ft**
HAZARDOUS WASTE GENERATED ANNUALLY	**0 Lbs**

CITY OF MOUNTAIN VIEW
FIRE AND ENVIRONMENTAL SAFETY DIVISION
500 Castro Street • City Hall • 4th Floor • Mountain View, CA 94041-2010 • 650-903-6378

ENVIRONMENTAL COMPLIANCE PLAN
Hazardous Materials Inventory

Facility ID:	1195
Updated:	7/27/2015

Business Name
Oxigraf, Inc.

State Facility ID: 43-004-001195

Facility Street Address
1170 Terra Bella Avenue

Map Location: A

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Acetone (Cas #: 67-64-1 EHS: No)

Hazard Class	Max.Daily Amt.	Storage Container	Temp.	Press.	Ann.Waste Amt.	Waste Code
Flammable Liquid	2 Gal	Bottles	=Amb	=Amb	0	NA

Chem Loc. Con. EPCRA	Trade Secret	Common Name	Hazmat Type	Radioactive	Curies	Physical State	Largest Container	Federal Hazard Categories	Avg. Daily Amt.	Days on Site
No	No	Acetone	Pure	No		Liquid	1 gallon bottle	Fire	2 Gal	365

Isopropanol (Cas #: 67-63-0 EHS: No)

Hazard Class	Max.Daily Amt.	Storage Container	Temp.	Press.	Ann.Waste Amt.	Waste Code
Flammable Liquid	2 Gal	Bottles	=Amb	=Amb	0	NA

Chem Loc. Con. EPCRA	Trade Secret	Common Name	Hazmat Type	Radioactive	Curies	Physical State	Largest Container	Federal Hazard Categories	Avg. Daily Amt.	Days on Site
No	No	Isopropanol	Pure	No		Liquid	1 gallon bottle	Fire	2 Gal	365

Methanol (Cas #: 67-56-1 EHS: No)

Hazard Class	Max.Daily Amt.	Storage Container	Temp.	Press.	Ann.Waste Amt.	Waste Code
Flammable Liquid	1 Gal	Bottles	=Amb	=Amb	0	NA

Chem Loc. Con. EPCRA	Trade Secret	Common Name	Hazmat Type	Radioactive	Curies	Physical State	Largest Container	Federal Hazard Categories	Avg. Daily Amt.	Days on Site
No	No	Methanol	Pure	No		Liquid	1 gallon bottle	Fire	1 Gal	365

CITY OF MOUNTAIN VIEW
FIRE AND ENVIRONMENTAL SAFETY DIVISION
500 Castro Street • City Hall • 4th Floor • Mountain View, CA 94041-2010 • 650-903-6378

ENVIRONMENTAL COMPLIANCE PLAN
Hazardous Materials Inventory

Facility ID:	1195
Updated:	7/27/2015

Business Name
Oxigraf, Inc.

State Facility ID: 43-004-001195

Facility Street Address
1170 Terra Bella Avenue

Map Location: B

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Nitrogen (Cas #: **7727-37-9** EHS: **No**)

Hazard Class	Max.Daily Amt.	Storage Container	Temp.	Press.	Ann.Waste Amt.	Waste Code
Nonflammable Gas	**212 Cu Ft**	**Cylinder (Pressurized)**	**=Amb**	**>Amb**	**0**	**NA**

Chem Loc. Con. EPCRA	Trade Secret	Common Name	Hazmat Type	Radioactive	Curies	Physical State	Largest Container	Federal Hazard Categories	Avg. Daily Amt.	Days on Site
No	No	Nitrogen	Pure	No		Gas	200 cubic foot cylinder	Pressure Release	212 Cu Ft	365

Oxygen (Cas #: **37187-22-7** EHS: **No**)

Hazard Class	Max.Daily Amt.	Storage Container	Temp.	Press.	Ann.Waste Amt.	Waste Code
Nonflammable Gas	**212 Cu Ft**	**Cylinder (Pressurized)**	**=Amb**	**>Amb**	**0**	**NA**

Chem Loc. Con. EPCRA	Trade Secret	Common Name	Hazmat Type	Radioactive	Curies	Physical State	Largest Container	Federal Hazard Categories	Avg. Daily Amt.	Days on Site
No	No	Oxygen	Pure	No		Gas	200 cubic foot cylinder	Pressure Release	212 Cu Ft	365

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Nitrogen (Cas #: **7727-37-9** EHS: **No**)

Hazard Class	Max.Daily Amt.	Storage Container	Temp.	Press.	Ann.Waste Amt.	Waste Code
Nonflammable Gas	**424 Cu Ft**	**Cylinder (Pressurized)**	**=Amb**	**>Amb**	**0**	**NA**

Chem Loc. Con. EPCRA	Trade Secret	Common Name	Hazmat Type	Radioactive	Curies	Physical State	Largest Container	Federal Hazard Categories	Avg. Daily Amt.	Days on Site
No	No	Nitrogen	Pure	No		Gas	200 cubic foot cylinder	Pressure Release	424 Cu Ft	365

CITY OF MOUNTAIN VIEW
FIRE AND ENVIRONMENTAL SAFETY DIVISION
500 Castro Street • City Hall • 4th Floor • Mountain View, CA 94041-2010 • 650-903-6378

ENVIRONMENTAL COMPLIANCE PLAN
Hazardous Materials Inventory

Facility ID:	1195
Updated:	7/27/2015

Business Name
Oxigraf, Inc.

State Facility ID: 43-004-001195

Facility Street Address
1170 Terra Bella Avenue

Map Location: D

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Ammonia Air Mix (Cas #: EHS: No)

Hazard Class	Max.Daily Amt.	Storage Container	Temp.	Press.	Ann.Waste Amt.	Waste Code
Nonflammable Gas	3 Cu Ft	Cylinder (Pressurized)	=Amb	>Amb	0	NA

Chem Loc. Con. EPCRA	Trade Secret	Common Name	Hazmat Type	Radioactive	Curies	Physical State	Largest Container	Federal Hazard Categories	Avg. Daily Amt.	Days on Site
No	No	Ammonia Air Mix	Pure	No		Gas	3 cubic foot cylinder	Pressure Release	3 Cu Ft	365

Nitrogen (Cas #: 7727-37-9 EHS: No)

Hazard Class	Max.Daily Amt.	Storage Container	Temp.	Press.	Ann.Waste Amt.	Waste Code
Nonflammable Gas	212 Cu Ft	Cylinder (Pressurized)	=Amb	>Amb	0	NA

Chem Loc. Con. EPCRA	Trade Secret	Common Name	Hazmat Type	Radioactive	Curies	Physical State	Largest Container	Federal Hazard Categories	Avg. Daily Amt.	Days on Site
No	No	Nitrogen	Pure	No		Gas	200 cubic foot cylinder	Pressure Release	212 Cu Ft	365

Oxygen/Nitrogen Mixture (Cas #: EHS: No)

Hazard Class	Max.Daily Amt.	Storage Container	Temp.	Press.	Ann.Waste Amt.	Waste Code
Nonflammable Gas	636 Cu Ft	Cylinder (Pressurized)	=Amb	>Amb	0	NA

Chem Loc. Con. EPCRA	Trade Secret	Common Name	Hazmat Type	Radioactive	Curies	Physical State	Largest Container	Federal Hazard Categories	Avg. Daily Amt.	Days on Site
No	No	Oxygen/Nitrogen Mixture	Pure	No		Gas	200 cubic foot cylinder	Pressure Release	636 Cu Ft	365

CITY OF MOUNTAIN VIEW
FIRE AND ENVIRONMENTAL SAFETY DIVISION
500 Castro Street • City Hall • 4th Floor • Mountain View, CA 94041-2010 • 650-903-6378

ENVIRONMENTAL COMPLIANCE PLAN
Hazardous Materials Inventory

Facility ID:	1195
Updated:	7/27/2015

Business Name
Oxigraf, Inc.

State Facility ID: 43-004-001195

Facility Street Address
1170 Terra Bella Avenue

Map Location: E

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Oxygen/Argon Mixture (Cas #: EHS: No)

Hazard Class	Max.Daily Amt.	Storage Container	Temp.	Press.	Ann.Waste Amt.	Waste Code
Nonflammable Gas	212 Cu Ft	Cylinder (Pressurized)	=Amb	>Amb	0	NA

Chem Loc. Con. EPCRA	Trade Secret	Common Name	Hazmat Type	Radioactive	Curies	Physical State	Largest Container	Federal Hazard Categories	Avg. Daily Amt.	Days on Site
No	No	Oxygen/Argon Mixture	Pure	No		Gas	200 cubic foot cylinder	Pressure Release	212 Cu Ft	365

Oxygen/Nitrogen Mixture (Cas #: EHS: No)

Hazard Class	Max.Daily Amt.	Storage Container	Temp.	Press.	Ann.Waste Amt.	Waste Code
Nonflammable Gas	212 Cu Ft	Cylinder (Pressurized)	=Amb	>Amb	0	NA

Chem Loc. Con. EPCRA	Trade Secret	Common Name	Hazmat Type	Radioactive	Curies	Physical State	Largest Container	Federal Hazard Categories	Avg. Daily Amt.	Days on Site
No	No	Oxygen/Nitrogen Mixture	Pure	No		Gas	200 cubic foot cylinder	Pressure Release	212 Cu Ft	365

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Oxygen (Cas #: 37187-22-7 EHS: No)

Hazard Class	Max.Daily Amt.	Storage Container	Temp.	Press.	Ann.Waste Amt.	Waste Code
Nonflammable Gas	636 Cu Ft	Cylinder (Pressurized)	=Amb	>Amb	0	NA

Chem Loc. Con. EPCRA	Trade Secret	Common Name	Hazmat Type	Radioactive	Curies	Physical State	Largest Container	Federal Hazard Categories	Avg. Daily Amt.	Days on Site
No	No	Oxygen	Pure	No		Gas	200 cubic foot cylinder	Pressure Release	636 Cu Ft	365

Oxygen/Nitrogen Mixture (Cas #: EHS: No)

Hazard Class	Max.Daily Amt.	Storage Container	Temp.	Press.	Ann.Waste Amt.	Waste Code
Nonflammable Gas	2120 Cu Ft	Cylinder (Pressurized)	=Amb	>Amb	0	NA

Chem Loc. Con. EPCRA	Trade Secret	Common Name	Hazmat Type	Radioactive	Curies	Physical State	Largest Container	Federal Hazard Categories	Avg. Daily Amt.	Days on Site
No	No	Oxygen/Nitrogen Mixture	Pure	No		Gas	200 cubic foot cylinder	Pressure Release	2120 Cu Ft	365

****Total Hazardous Waste Produced Annually is 0.00 Lbs (0.00 Tons)**

CITY OF MOUNTAIN VIEW
FIRE DEPARTMENT

HAZARDOUS MATERIAL STORAGE PERMIT

THIS PERMIT EVIDENCES THAT THE FIRM OR CORPORATION NAMED HEREIN HAS PAID THE APPLICABLE FEES AND IS AUTHORIZED TO STORE HAZARDOUS MATERIALS AT THE FACILITY INDICATED BELOW IN ACCORDANCE WITH CHAPTER 24 OF THE MOUNTAIN VIEW MUNICIPAL CODE

PERMITTED FACILITY:

Business Name:

Mailing Address:

City, State & Zip Code:

Date Issued:

Date Expires:

Permit ID:

Authorized by Fire Prevention Bureau

HM-4

POST IN A CONSPICUOUS PLACE

CITY OF MOUNTAIN VIEW
FIRE DEPARTMENT

HAZARDOUS MATERIAL STORAGE PERMIT

THIS PERMIT EVIDENCES THAT THE FIRM OR CORPORATION NAMED HEREIN HAS PAID THE APPLICABLE FEES AND IS AUTHORIZED TO STORE HAZARDOUS MATERIALS AT THE FACILITY INDICATED BELOW IN ACCORDANCE WITH CHAPTER 24 OF THE MOUNTAIN VIEW MUNICIPAL CODE.

PERMITTED FACILITY:

Business Name:

Mailing Address:

City, State & Zip Code:

Date Issued:

Date Expires:

Permit ID:

Authorized by Fire Prevention Bureau

HM-4

POST IN A CONSPICUOUS PLACE

CITY OF MOUNTAIN VIEW
FIRE DEPARTMENT
HAZARDOUS MATERIAL STORAGE PERMIT

THIS PERMIT EVIDENCES THAT THE FIRM OR CORPORATION NAMED HEREIN HAS PAID THE APPLICABLE FEES AND IS AUTHORIZED TO STORE HAZARDOUS MATERIALS AT THE FACILITY INDICATED BELOW IN ACCORDANCE WITH CHAPTER 24 OF THE MOUNTAIN VIEW MUNICIPAL CODE

PERMITTED FACILITY: MESA TECHNOLOGY
1130 TERRA BELLA

Business Name: Mesa Technology

Mailing Address: 1130 Terra Bella Ave.

City, State & Zip Code: Mountain View, CA 94043

Attn: Curt Richards

Date Issued: April 1, 1983

Date Expires: April 1, 1984

Permit ID:

Authorized by Fire Prevention Bureau

HM-4

POST IN A CONSPICUOUS PLACE

CITY OF MOUNTAIN VIEW
FIRE DEPARTMENT
HAZARDOUS MATERIAL STORAGE PERMIT

THIS PERMIT EVIDENCES THAT THE FIRM OR CORPORATION NAMED HEREIN HAS PAID THE APPLICABLE FEES AND IS AUTHORIZED TO STORE HAZARDOUS MATERIALS AT THE FACILITY INDICATED BELOW IN ACCORDANCE WITH CHAPTER 24 OF THE MOUNTAIN VIEW MUNICIPAL CODE.

PERMITTED FACILITY: OLIN MESA CORP.
1130 TERRA BELLA

Business Name: Olin Mesa Corp.

Mailing Address: 1130 Terra Bella

City, State & Zip Code: Mountain View, CA 94043

Attn: Curt Richards

Date Issued: April 6, 1989

Date Expires: April 1, 1990

Permit ID:

Authorized by Hazardous Materials Division

HM-4 (REV 11-88)

POST IN A CONSPICUOUS PLACE

Olin Mesa Corp.
A Subsidiary of Olin Corporation

1130 Terra Bella Avenue
Mountain View, CA 94043
Telephone (415) 961-6372
Fax (415) 965-4595
Telex 172211 HQ SUVL

Olin Mesa

August 3, 1989

Mr. Chris Stock
Hazardous Materials Specialist
Fire Department
Hazardous Materials Division
City of Mountain View
1000 Villa Street
Mountain View, CA. 94041

Dear Chris:

Olin Mesa is moving to Santa Clara by October 1, 1989.

The Olin Mesa Closure Plan is enclosed for your review.

All equipment will be moved to the new facility. All process piping will be removed from the site.

Wipe sample analysis will be performed per Exhibit A after the identified area is cleared. Proposed Demonstration Plan Closure

If you have any questions, please don't hesitate to contact me.

Sincerely,

Curt M. Richards

Curt M. Richards
Director of Operations
Olin Mesa Corp.

(Old) 2165839
2165839
5300 Stevens Creek
SC 95054

OLIN MESA CLOSURE PLAN

I. INTRODUCTION

A. 1130 TERRA BELLA AVENUE

B. COMPANY HEADQUARTERS & MANUFACTURING FACILITY FOR TAB (TAPE AUTOMATED BONDING) TAPE.

C. MESA TECHNOLOGY (NOW OLIN MESA CORP.) OCCUPIED THIS BUILDING IN MARCH 1983 AS A COMPANY HEADQUARTER & TAB TAPE MANUFACTURING FACILITY.

IN SEPTEMBER 1988, AQUA TERRA TECHNOLOGIES COMPLETED A PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT AND GROUNDWATER INVESTIGATION FOR SNIDER PROPERTIES. NO DETECTABLE CONCENTRATIONS OF SEMIVOLATILE ORGANIC COMPOUNDS WERE REPORTED. TRICHLOROETHYLENE (TCE) AND TRANS-1,2-DICHLOROETHYLENE (T-1,2-DCE) WERE DETECTED. OLIN MESA USES RESEARCH QUANTITIES OF TCE AND HAS NEVER USED DCE. BECAUSE TCE AND DCE WERE DETECTED IN THE UPGRADIENT WELL, IT APPEARS THESE COMPOUNDS ORIGINATED FROM AN OFFSITE SOURCE.

II. INITIAL SITE INSPECTION AND ASSESSMENT

A. ALL HAZARDOUS MATERIALS ON SITE WILL BE TRANSPORTED TO OLIN MESA'S NEW LOCATION AT 3500 GARRETT DRIVE, SANTA CLARA. ALL HAZARDOUS WASTE WILL BE DISPOSED THROUGH EXISTING HAZARDOUS WASTE CONTRACTS WITH CHEMICAL WASTE MANAGEMENT AND SOLVENT SERVICES.

B. A MAP IDENTIFYING ALL CHEMICAL USE AND STORAGE AREAS IS ATTACHED, AS WELL AS, THE QUANTITIES.

C. HAZARDOUS MATERIALS USE AND STORAGE AREAS ARE CLEAN AND HAVE BEEN MAINTAINED.

D. ALL CHEMICALS AND PROCESS EQUIPMENT WILL BE MOVED OR PROPERLY DISPOSED PRIOR TO VACATING THE FACILITY

E. A WIPE SAMPLE ANALYSIS WILL BE PERFORMED ACCORDING TO EXHIBIT A.

III. REMEDIATION PROPOSAL

ALL SAVAGEABLE EQUIPMENT AND UTILITIES WILL BE RELOCATED.

A. ALL ROOF EXHAUST FANS AND DUCTS WILL BE REMOVED AND RELOCATED TO THE NEW FACILITY.

ALL FLASHINGS FOR REMOVED EQUIPMENT ARE TO BE REMOVED AND THE OPENINGS CLOSED AND RENDERED WATERTIGHT.

B. AIR COMPRESSORS ARE TO BE RELOCATED TO THE NEW FACILITY.
ALL PIPING (EXCLUDING CITY WATER AND SANITARY) WILL BE REMOVED.
ALL PIPING WILL BE FLUSHED IN PLACE PRIOR TO REMOVAL.
THE DI WATER SYSTEM WILL BE REMOVED BY POLYMETRICS.
ALL ELECTRICAL EQUIPMENT, PANELS AND WIRING NOT REQUIRED FOR AIR CONDITIONING UNITS WILL BE REMOVED.
THE NEUTRALIZATION SYSTEM WILL BE RELOCATED.

C. ALL PIPING (EXCLUDING CITY WATER AND SANITARY) WILL BE REMOVED.
ALL PIPING WILL BE FLUSHED IN PLACE PRIOR TO REMOVAL.
ALL INTERIOR DUCTS WILL BE REMOVED (EXCLUDING DUCTS FOR AIR CONDITIONING).
ALL ELECTRICAL EQUIPMENT, PANELS AND WIRING NOT REQUIRED FOR AIR CONDITIONING UNITS WILL BE REMOVED.
ALL PROCESS EQUIPMENT IS TO BE FLUSHED AND CLEANED AS NEEDED BEFORE REMOVAL

D. ALL EQUIPMENT REMAINING ON SITE WILL BE UTILITY EQUIPMENT.

E. ALL FLOORS WILL BE CLEANED WITH SOAP AND WATER AFTER THE PROCESSING EQUIPMENT HAS BEEN REMOVED.

F. THE TRENCH AND SUMP AREA IS TO BE TESTED PER EXHIBIT A, CHIPPED OUT AND DISPOSED OF BASED ON THE CONTAMINATION LEVEL, IF ANY.
SAMPLES WILL BE TAKEN OF THE GROUND BENEATH THE HAZARDOUS WASTE AREA AND TESTED FOR COPPER, NICKEL, STANNOUS CHLORIDE CONTAMINATION LEVELS. IF REQUIRED, EXCAVATION AND OR SOIL REMOVAL WILL BE PERFORMED TO REDUCE CONTAMINATION TO BELOW ACTION LEVELS.

G. THE HAZARDOUS WASTE CONTAINMENT AREA IS TO BE TESTED FOR CONTAMINATION PER EXHIBIT A, BROKEN UP AND DISPOSED ACCORDING TO THE LEVEL OF CONTAMINATION FOUND, IF ANY.
SAMPLES WILL BE TAKEN OF THE GROUND BENEATH THE HAZARDOUS WASTE AREA AND TESTED FOR COPPER, NICKEL, STANNOUS CHLORIDE CONTAMINATION LEVELS. IF REQUIRED, EXCAVATION AND OR SOIL REMOVAL WILL BE PERFORMED TO REDUCE CONTAMINATION TO BELOW ACTION LEVELS.
A GROUNDWATER ANALYSIS WAS COMPLETED IN SEPTEMBER 1988.

H. PREVIOUSLY ADDRESSED.

I. IF INITIAL WIPE SAMPLES DETECT CONTAMINATION ABOVE ACTION LEVELS,

AFTER DECONTAMINATION WIPE SAMPLES WILL BE OBTAINED TO VERIFY DECONTAMINATION IS COMPLETE.

IV. CONCLUSIONS

A. THERE SHOULD BE NO ENVIRONMENTAL OR HEALTH RISK POSED BY THE FACILITY AFTER COMPLETION OF REMEDIATION. OLIN MESA HAS NOT EXPERIENCED ANY REPORTABLE SPILLS IN THE HISTORY OF THE COMPANY. IN SEPTEMBER 1988, A PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT AND GROUNDWATER INVESTIGATION WAS COMPLETED. NO DETECTABLE CONCENTRATIONS OF SEMIVOLATILE ORGANIC COMPOUNDS WERE REPORTED. TRICHLOROETHYLENE (TCE) AND TRANS-1,2-DICHLOROETHYLENE (T-1,2-DCE) WERE DETECTED. OLIN MESA USES RESEARCH QUANTITIES OF TCE AND HAS NEVER USED DCE. BECAUSE TCE AND DCE WERE DETECTED IN THE UPGRADIENT WELL, IT APPEARS THESE COMPOUNDS ORIGINATED FROM AN OFFSITE SOURCE.

Exhibit A

OLIN MESA CLOSURE PLAN
WIPE SAMPLE ANALSIS

AREA #1 (CAGED STORAGE AREA)
COPPER
NICKEL
THIOUREA
STANNOUS CHLORIDE

#2 HAZARDOUS WASTE STORAGE AREA
COPPER
NICKEL
THIOUREA
STANNOUS CHLORIDE

AREA #3 GOLD LINE CAGED AREA
COPPER
CYANIDE
NICKEL
ARSENIC

AREA #4 TIN PLATING LINE
THIOUREA
STANNOUS CHLORIDE

AREA #5 ETCHING LINE
COPPER

AREA#6 COATING ROOM
ACETONE
ISOPROPANOL
O-CHLOROTOLUENE
XYLENE
TOLUENE

AREA #7 TRENCH & AREA #8 SUMP

COPPER

CITY OF MOUNTAIN VIEW

FIRE DEPARTMENT
HAZARDOUS MATERIALS DIVISION
(415) 966-6378

1000 VILLA STREET
MOUNTAIN VIEW, CA 94041

December 20, 1989

Mr. Curt Richards
Olin Mesa Corp.
3500 Garrett Drive
Santa Clara, Ca 95054

Dear Mr. Richards:

We are in receipt of the final documents needed to properly close your facility at 1130 Terra Bella Ave., Mountain View, CA. This includes the wipe sample analysis of areas of hazardous materials storage or use as well as the hazardous waste manifest for the removal of contaminated concrete and soil.

In your final closure statement received in November 1989, you concluded that no significant human health risks remain at the facility. Furthermore, residual concentrations of elemental metals will not impact future site development activities. The wipe sample analysis presented tends to support these conclusions, however, in certain areas shown in your report wipe sample analysis exceeded background levels.

Based on all the submitted information, as well as the walk-through of the building to confirm that all hazardous materials have been properly removed and disposed of, your closure is considered complete and fulfills Section 24.19(h) of Chapter 24, Mountain View Municipal Code.

If you have any questions, feel free to call me at (415) 966-6378.

Sincerely,

Kurt Danziger
Hazardous Materials Specialist

cc: Julie Ly

Olin Mesa Corp.
A Subsidiary of Olin Corporation

3500 Garrett Drive
Santa Clara, CA 95054
Telephone (408) 986-8400
Fax (408) 982-2298

Olin Mesa

Mr. Kurt Danzinger
Fire Department
City of Mountain View
1000 Villa Street
Mountain View, CA 94041

December 14, 1989

Subject: Olin Mesa Corp.
1130 Terra Bella Avenue
Mountain View, CA

Dear Kurt:

Attached are the final items that complete the Closure Plan.

If I can be of assistance or answer any questions, please contact me at (408)982-2234.

Sincerely,

Curt M. Richards

Curt M. Richards
Director of Operations
Olin Mesa Corp.

cc: Mike Trimble Perimeter Products
w/o attachments

Addendum II to

OLIN MESA CLOSURE PLAN

1130 TERRA BELLA AVENUE

MOUNTAIN VIEW, CA

III. REMEDIATION:

J. CONCRETE AND SOIL SEGREGATED FROM OTHER CONCRETE AND SOIL WERE ANALYZED (ATTACHMENT XI). THE UNIFORM HAZARDOUS WASTE MANIFEST FOR SHIPMENT IS ATTACHED. (ATTACHMENT XII).

ATTACHMENT XI

ACUREX Corporation

Environmental Systems Division

Acurex Brower
Acurex ESD
Building 2

November 17, 1989
Acurex ID: 8911053
Client PO: 9424.010
Page 1 of 5

Attention: Peter Brower

Subject: Analysis of 2 Soil Samples, Received 11/10/89

The samples were digested using EPA method 3050 prior to analysis. The digestate was analyzed for requested metals using Inductively Coupled Argon Plasma Spectroscopy or Atomic Absorption spectrophotometry following Test Methods for Evaluating Solid Waste (SW-846 3rd. Ed.,1986). The EPA method employed is listed alongside of the parameter. The results are presented in Table 1.

The samples were prepared by extraction in a citrate buffer for 48 hours. The resulting extract was filtered and acid digested using EPA Method 3010 and/or 3020 prior to analysis. The extract was then analyzed for requested metals using Inductively Coupled Argon Plasma spectroscopy or Atomic Absorption spectrophotometry. The resulting values are the soluble threshold limit concentrations for the requested metals. The results are presented in Table 2.

If you should have any technical questions, please contact the undersigned at (415)964-0844.

Approved by: Daniel L. Middleton
Client Services Manager

These results were obtained by following standard laboratory procedures; the liability of Acurex Corporation shall not exceed the amount paid for this report. In no event shall Acurex be liable for special or consequential damages.

Table 1. Metals Results

Acurex Clin Sample ID

Parameter	EPA Method	North #1 13:45 mg/kg	South #2 13:45 mg/kg	Spike % Recov	Dup Spike RPD	METHOD BLANK mg/L
Copper	6010	2450	4150	114	10	<0.01

Table 1. Metals Results

Acurex Olin Sample ID

Parameter	EPA Method	METHOD DETECTION LIMIT mg/Kg
Copper	6010	1.0

Table 2. Metals Results

Parameter	EPA Method	Acurex Olin Sample ID: North #1 13:45 mg/L	South #2 13:45 mg/L	Spike % Recov	Dup Spike RPD	METHOD BLANK mg/L
Copper	200.7	246	402	86	7.9	<0.01

Table 2. Metals Results

Acurex Olin Sample ID

Parameter	EPA Method	METHOD DETECTION LIMIT mg/L
Copper	200.7	0.01

ACUREX ANALYTICAL LABORATORY
CHAIN OF CUSTODY

8911-053

Acurex Reposa Number: _____

Page 1 of 1

Company Name	Project Manager
Olin Mesa	Brewer
Project Number: 9424.013	**Project Name:** Soil Sample II

Sampled by (Printed and Written Signature)

SAMPLE ID	DATE	TIME	MATRIX	SAMPLE LOCATION	NO. OF CONTAINERS	ANALYSIS: Cu	ANALYSIS: STLC - Cu	ANALYSIS: Other	REMARKS (preservation, special analytical or turnaround requirements, duplicate sample, etc.)
0X0043	11-14-88	1315	Soil	North (#1)	1	X	X		Turnaround ASAP
0X0045	11-14-88	1315	Soil	South (#2)	1	X	X		Turnaround ASAP
									1 Week TAT w/ EC

Relinquished by (Signature) | Date/Time | Received by (Signature)

Relinquished by (Signature) | Date/Time | Received by (Signature)

Relinquished by (Signature): B Dahnke | Date/Time: 11/15 1700 | Received for Laboratory by: (Signature) Marilyn Dunn | Date/Time: 11/16/88 | 0715 AM

REMARKS: Hold Billing for Engrn. Report
See DeBosier and/or Brewer
with Questions

ACUREX ANALYTICAL LABORATORY
405 Clyde Avenue, Bldg. 12
Mountain View CA 94039
(415) 961-5700

State of California—Health and Welfare Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-91)
Please print or type (Form designed for use on elite (12-pitch typewriter)

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: CAD981139152 | Manifest Document No: 01010410 | 2 Page 1 of 1 | Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
OLIN MESA CORP.
1130 TERRA BELLA AVENUE
MT. VIEW, CA 94043
4. Generator's Phone (415) 961-6372

A. State Manifest Document Number: 89443463
B. State Generator's ID: HAH0316012381751

5. Transporter 1 Company Name: UNIVERSAL ENGINEERING INC
6. US EPA ID Number: CAD980134469
C. State Transporter's ID: OD2472
D. Transporter's Phone: (707) 746-6699

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT
3525 OLD SKYLINE ROAD
KETTLEMAN CITY, CA 93239
10. US EPA ID Number: CAT080016461117
G. State Facility's ID: CAT080016461117
H. Facility's Phone: (800) 222-2964

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No
a. COPPER CONTAMINATED SOILS/CONCRETE CA REGULATED ONLY California Regulated Waste Only	01	16 DM	01532	00 P	State 181 EPA/Other Exempt
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
K. Handling Codes for Wastes Listed Above: a. b. c. d.

15. Special Handling Instructions and Additional Information
(a) PROFILE SFO J 17951 COPPER CONTAMINATED SOIL/CONCRETE

16.
GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name: CURT M. RICHARDS | Signature: Curt M. Richards | Month 11 Day 21 Year 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: TROY WILLIAMS | Signature: Troy Williams | Month 12 Day 14 Year 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space
(6) CAT080013469 (10) CAT 000646117 DATE 12/14/89

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name | Signature | Month Day Year

DHS 8022 A (1/88)
EPA 8700-22
(Rev. 9-88) Previous editions are obsolete.

Do Not Write Below This Line

Blue: GENERATOR SENDS THIS COPY TO DOHS WITHIN 30 DAYS
To: P.O. Box 400, Sacramento, CA 95812-0400

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

Olin Mesa Corp.
A Subsidiary of Olin Corporation

1130 Terra Bella Avenue
Mountain View, CA 94043
Telephone (415) 961-6372
Fax (415) 965-4595
Telex 172211 HQ SUVL

Olin Mesa

August 3, 1989

Mr. Chris Stock
Hazardous Materials Specialist
Fire Department
Hazardous Materials Division
City of Mountain View
1000 Villa Street
Mountain View, CA. 94041

Dear Chris:

Olin Mesa is moving to Santa Clara by October 1, 1989.

The Olin Mesa Closure Plan is enclosed for your review.

All equipment will be moved to the new facility. All process piping will be removed from the site.

Wipe sample analysis will be performed per Exhibit A after the identified area is cleared.

If you have any questions, please don't hesitate to contact me.

Sincerely,

Curt M. Richards

Curt M. Richards
Director of Operations
Olin Mesa Corp.

OLIN MESA CLOSURE PLAN

I. INTRODUCTION

A. 1130 TERRA BELLA AVENUE

B. COMPANY HEADQUARTERS & MANUFACTURING FACILITY FOR TAB (TAPE AUTOMATED BONDING) TAPE.

C. MESA TECHNOLOGY (NOW OLIN MESA CORP.) OCCUPIED THIS BUILDING IN MARCH 1983 AS A COMPANY HEADQUARTER & TAB TAPE MANUFACTURING FACILITY.

IN SEPTEMBER 1988, AQUA TERRA TECHNOLOGIES COMPLETED A PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT AND GROUNDWATER INVESTIGATION FOR SNIDER PROPERTIES. NO DETECTABLE CONCENTRATIONS OF SEMIVOLATILE ORGANIC COMPOUNDS WERE REPORTED. TRICHLOROETHYLENE (TCE) AND TRANS-1,2-DICHLOROETHYLENE (T-1,2-DCE) WERE DETECTED. OLIN MESA USES RESEARCH QUANTITIES OF TCE AND HAS NEVER USED DCE. BECAUSE TCE AND DCE WERE DETECTED IN THE UPGRADIENT WELL, IT APPEARS THESE COMPOUNDS ORIGINATED FROM AN OFFSITE SOURCE.

II. INITIAL SITE INSPECTION AND ASSESSMENT

A. ALL HAZARDOUS MATERIALS ON SITE WILL BE TRANSPORTED TO OLIN MESA'S NEW LOCATION AT 3500 GARRETT DRIVE, SANTA CLARA. ALL HAZARDOUS WASTE WILL BE DISPOSED THROUGH EXISTING HAZARDOUS WASTE CONTRACTS WITH CHEMICAL WASTE MANAGEMENT AND SOLVENT SERVICES.

B. A MAP IDENTIFYING ALL CHEMICAL USE AND STORAGE AREAS IS ATTACHED, AS WELL AS, THE QUANTITIES.

C. HAZARDOUS MATERIALS USE AND STORAGE AREAS ARE CLEAN AND HAVE BEEN MAINTAINED.

D. ALL CHEMICALS AND PROCESS EQUIPMENT WILL BE MOVED OR PROPERLY DISPOSED PRIOR TO VACATING THE FACILITY

E. A WIPE SAMPLE ANALYSIS WILL BE PERFORMED ACCORDING TO EXHIBIT A.

III. REMEDIATION PROPOSAL

ALL SAVAGEABLE EQUIPMENT AND UTILITIES WILL BE RELOCATED.

A. ALL ROOF EXHAUST FANS AND DUCTS WILL BE REMOVED AND RELOCATED TO THE NEW FACILITY.

ALL FLASHINGS FOR REMOVED EQUIPMENT ARE TO BE REMOVED AND THE OPENINGS CLOSED AND RENDERED WATERTIGHT.

B. AIR COMPRESSORS ARE TO BE RELOCATED TO THE NEW FACILITY.
ALL PIPING (EXCLUDING CITY WATER AND SANITARY) WILL BE REMOVED.
ALL PIPING WILL BE FLUSHED IN PLACE PRIOR TO REMOVAL.
THE DI WATER SYSTEM WILL BE REMOVED BY POLYMETRICS.
ALL ELECTRICAL EQUIPMENT, PANELS AND WIRING NOT REQUIRED FOR AIR CONDITIONING UNITS WILL BE REMOVED.
THE NEUTRALIZATION SYSTEM WILL BE RELOCATED.

C. ALL PIPING (EXCLUDING CITY WATER AND SANITARY) WILL BE REMOVED.
ALL PIPING WILL BE FLUSHED IN PLACE PRIOR TO REMOVAL.
ALL INTERIOR DUCTS WILL BE REMOVED (EXCLUDING DUCTS FOR AIR CONDITIONING).
ALL ELECTRICAL EQUIPMENT, PANELS AND WIRING NOT REQUIRED FOR AIR CONDITIONING UNITS WILL BE REMOVED.
ALL PROCESS EQUIPMENT IS TO BE FLUSHED AND CLEANED AS NEEDED BEFORE REMOVAL

D. ALL EQUIPMENT REMAINING ON SITE WILL BE UTILITY EQUIPMENT.

E. ALL FLOORS WILL BE CLEANED WITH SOAP AND WATER AFTER THE PROCESSING EQUIPMENT HAS BEEN REMOVED.

F. THE TRENCH AND SUMP AREA IS TO BE TESTED PER EXHIBIT A, CHIPPED OUT AND DISPOSED OF BASED ON THE CONTAMINATION LEVEL, IF ANY.
SAMPLES WILL BE TAKEN OF THE GROUND BENEATH THE HAZARDOUS WASTE AREA AND TESTED FOR COPPER, NICKEL, STANNOUS CHLORIDE CONTAMINATION LEVELS. IF REQUIRED, EXCAVATION AND OR SOIL REMOVAL WILL BE PERFORMED TO REDUCE CONTAMINATION TO BELOW ACTION LEVELS.

G. THE HAZARDOUS WASTE CONTAINMENT AREA IS TO BE TESTED FOR CONTAMINATION PER EXHIBIT A, BROKEN UP AND DISPOSED ACCORDING TO THE LEVEL OF CONTAMINATION FOUND, IF ANY.
SAMPLES WILL BE TAKEN OF THE GROUND BENEATH THE HAZARDOUS WASTE AREA AND TESTED FOR COPPER, NICKEL, STANNOUS CHLORIDE CONTAMINATION LEVELS. IF REQUIRED, EXCAVATION AND OR SOIL REMOVAL WILL BE PERFORMED TO REDUCE CONTAMINATION TO BELOW ACTION LEVELS.
A GROUNDWATER ANALYSIS WAS COMPLETED IN SEPTEMBER 1988.

H. PREVIOUSLY ADDRESSED.

I. IF INITIAL WIPE SAMPLES DETECT CONTAMINATION ABOVE ACTION LEVELS,

AFTER DECONTAMINATION WIPE SAMPLES WILL BE OBTAINED TO VERIFY DECONTAMINATION IS COMPLETE.

IV. CONCLUSIONS

A. THERE SHOULD BE NO ENVIRONMENTAL OR HEALTH RISK POSED BY THE FACILITY AFTER COMPLETION OF REMEDIATION. OLIN MESA HAS NOT EXPERIENCED ANY REPORTABLE SPILLS IN THE HISTORY OF THE COMPANY. IN SEPTEMBER 1988, A PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT AND GROUNDWATER INVESTIGATION WAS COMPLETED. NO DETECTABLE CONCENTRATIONS OF SEMIVOLATILE ORGANIC COMPOUNDS WERE REPORTED. TRICHLOROETHYLENE (TCE) AND TRANS-1,2-DICHLOROETHYLENE (T-1,2-DCE) WERE DETECTED. OLIN MESA USES RESEARCH QUANTITIES OF TCE AND HAS NEVER USED DCE. BECAUSE TCE AND DCE WERE DETECTED IN THE UPGRADIENT WELL, IT APPEARS THESE COMPOUNDS ORIGINATED FROM AN OFFSITE SOURCE.

Exhibit A

OLIN MESA CLOSURE PLAN
WIPE SAMPLE ANALSIS

AREA #1 (CAGED STORAGE AREA)
COPPER
NICKEL
THIOUREA
STANNOUS CHLORIDE

#2 HAZARDOUS WASTE STORAGE AREA
COPPER
NICKEL
THIOUREA
STANNOUS CHLORIDE

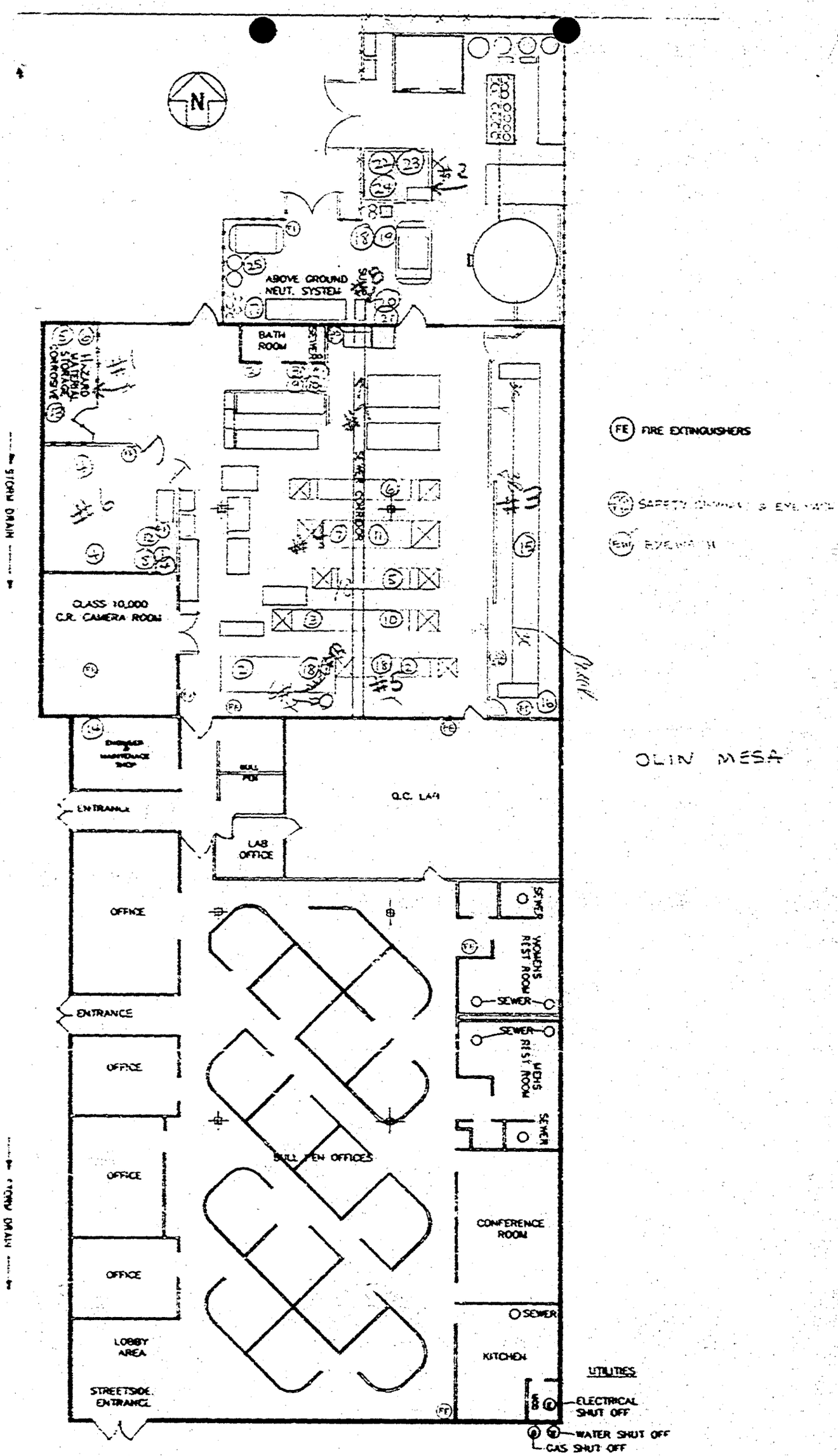
AREA #3 GOLD LINE CAGED AREA
COPPER
CYANIDE
NICKEL
ARSENIC

AREA #4 TIN PLATING LINE
THIOUREA
STANNOUS CHLORIDE

AREA #5 ETCHING LINE
COPPER

AREA#6 COATING ROOM
ACETONE
ISOPROPANOL
O CHLOROTOLUENE
XYLENE
TOLUENE

AREA #7 TRENCH & AREA #8 SUMP
COPPER


N
ABOVE GROUND NEUT. SYSTEM
BATH ROOM
HAZARD MATERIAL STORAGE
SEWER
SEWER CORRIDOR
CLASS 10,000 C.R. CAMERA ROOM
ENGINEER & MAINTENANCE SHOP
BULL PEN
Q.C. LAB
ENTRANCE
LAB OFFICE
OFFICE
SEWER
WOMEN'S REST ROOM
ENTRANCE
SEWER
MEN'S REST ROOM
OFFICE
BULL PEN OFFICES
OFFICE
CONFERENCE ROOM
OFFICE
SEWER
LOBBY AREA
KITCHEN
STREETSIDE ENTRANCE
UTILITIES
ELECTRICAL SHUT OFF
WATER SHUT OFF
GAS SHUT OFF
FE FIRE EXTINGUISHERS
STORM DRAIN
STORM DRAIN
OLIN MESA

CITY OF MOUNTAIN VIEW

HAZARDOUS MATERIALS DIVISION
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

HAZARDOUS MATERIALS INVENTORY STATEMENT
Amended 1988
(see back of sheet for instructions)

Official Use Only

(D)

Page (1) 1 of Pages 2

Date (2) 04/01/89

Business Name
(3) Olin Mesa Corp.

Facility Street Number Street Name
1130 Terra Bella Avenue

DOT CLASS (4)	Chemical Name/Trade Name (5)	Map Location (6)	Quantity & Physical State Gas (Cu Ft) (7)	Liquid (Gal) (8)	Solid (Lbs) (9)	Tank (10)	Waste (11)	Waste Annual Throughput (12)
FL	Acetone ✓	1		30				
Corr-L	Ammonium Hydroxide ✓	2		30				
Corr-L	Hydrochloric Acid ✓	3		30				
FL	2- Ethoxyethyl Acetate, O-Chlorotoluene/Microposit 119 s Photo Resist/Microposit 119 Thinner ✓	4		30				
Corr-L	Sodium Hydroxide/Microposit 303 A Developer ✓	5		150				
Corr-L	Glycol Ethers, 2- Butoxyethanol Ethanolamine, Dipropylene Glycol Methyl ether/ Microposit Remover 1112 A ✓	6		150				
Corr-L	Phosphoric Acid ✓	7		30				
FL	2- Propanol ✓	8		30				
Corr-L	Nitric Acid ✓	9		30				
Corr-L	Sulfuric Acid ✓	10		30				
Corr-L	Thiourea, Sodium Hypophosphite Stannous Chloride/ Tinposit LT-26 ✓	11		60	375			
FL	Waste Solvent ✓	12		60			x	165
Corr-L	Thiourea, Sodium Hypophosphite Stannous Chloride/ Tinposit LT-26 ✓	13			375			
FG	Acetylene	14		40				
Pois-L	Cyanide Gold Solution Potassium Gold Cyanide ✓	15		80				
Pois-S	Gold Salts Potassium Gold Cyanide ✓	16			10			

CITY OF MOUNTAIN VIEW

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HAZARDOUS MATERIALS INVENTORY STATEMENT
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Page 2 of Pages 2

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ID

(1) Date 04/01/89

(2) Business Name: Olin Mesa Corp.

(3) Facility Street Number / Street Name: 1130 Terra Bella Ave.

DOT CLASS (4)	Chemical Name/Trade Name (5)	Map Location (6)	Quantity & Physical State: Gas (Cu Ft) (7)	Liquid (Gal) (8)	Solid (Lbs) (9)	Tank (10)	Waste (11)	Waste Annual Throughput (12)
OXY-S	Ammonium Persulfate ✓	17			375			
Corr-L	Ammonium Hydroxide, Ammonium Chloride, Ammonium Carbonate/High Speed AC- CU- Guard Replenisher ✓	18		220				
Corr-L	Ammonium Chloride, Ammonium Hydroxice/High Speed Ac- CU- Guard Starter ✓	19		110				
Corr-L	Sodium Hydroxide ✓	20		30				
Corr-L	Sulfuric Acid ✓	21		30				
Corr-L	Waste Corrosive Liquid ✓	22		275			x	1980
Corr-L	Waste Hydrochloric Acid Mixture ✓	23		275			x	660
Corr-L	Waste Ammonium Hydroxide Solution	24		165			x	1980
NFG	Nitrogen ✓	25	80					

City of Mountain View, CA OFFICIAL RECEIPT

ORIGINATING DEPARTMENT ▶ ☐ FINANCE ☐ RECREATION ☐ POLICE ☒ FIRE ☐ LIBRARY ☐ OTHER

DATE 07/04/89

RECEIVED FROM OLIN MESA / MESA TECHNOLOGY

T/C	SUBSIDIARY	INDEX	SUB OBJ.	DESCRIPTION (60 CHAR. LIMIT)	AMOUNT
		6263017	1411	HAZMAT STORAGE PERMIT FEES 1989	1,275 —
				1130 Terra Bella	
				TOTAL	1,275 —

CHECK NO. 13868 66-35 531 | CASH | BY [signature] MS CASHIER [redacted] 40051

FORM F1-5 (12/87)

Olin Mesa Corp.
A Subsidiary of Olin Corporation

1130 Terra Bella Avenue
Mountain View, CA 94043
Telephone (415) 961-6372
Fax (415) 965-4595
Telex 172211 HQ SUVL

Olin Mesa

Mountain View Fire Department
Hazardous Material Section
1000 Villa Street
Mountain View, CA. 94041

March 31, 1989

Gentlemen:

This letter is to inform you of our recent name change from "MESA Technology" to "Olin Mesa Corporation." The ownership, operations, and location remain the same, and no significant changes have occurred since our most recent submissions to your department.

Please make the neccesary changes for our files, registrations, and permits as applicable.

If you have any questions, please call me at (415) 961-6372.

Very truly yours,

Curt M. Richards

Curt M. Richards
Director of Operations
Olin Mesa Corporation

STATE OF CALIFORNIA--HEALTH AND WELFARE AGENCY GEORGE DEUKMEJIAN, Governor

EPARTMENT OF HEALTH SERVICES
, 4/744 P STREET
SACRAMENTO, CA 95814
(916) 445-6256

NOV 06 YR!

MESA TECHNOLOGY
1130 TERRA BELLA AVE
MOUNTAIN VIEW CA 94043

REG NO
041483 REGISTRATION NUMBER:

041483

REGISTRATION OF RADIATION SOURCES

In compliance with Section 25815, Health and Safety Code, and Section 30110, Title 17, California Administrative Code,

THE REGISTRATION NUMBER ABOVE HAS BEEN ASSIGNED TO THE INSTALLATION LOCATED AT:

Same as above

expires 6/30/90

Please keep this letter with your copy of the registration form RH 2261. Any correspondence or reports of change relative to this installation should make reference to the registration number.

Radiologic Health Branch

RH 2516 (Rev. 7/85)

STATE OF CALIFORNIA—HEALTH AND WELFARE AGENCY GEORGE DEUKMEJIAN, Governor

DEPARTMENT OF HEALTH SERVICES
1744 P STREET
SACRAMENTO, CA 95814
(916) 445-6256

REGISTRATION NUMBER:

REG NO
039941

REGISTRATION OF RADIATION SOURCES

In compliance with Section 25815, Health and Safety Code, and Section 30110, Title 17, California Administrative Code,

THE REGISTRATION NUMBER ABOVE HAS BEEN ASSIGNED TO THE INSTALLATION LOCATED AT:

MESA TECHNOLOGY / RILEY R
1130 TERRA BELLA AVE
MT VIEW CA

Please keep this letter with your copy of the registration form RH 2261. Any correspondence or reports of change relative to this installation should make reference to the registration number.

Radiologic Health Branch

CITY OF MOUNTAIN VIEW

FIRE DEPARTMENT
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

HMMP FACILITY DIRECTORY
(see back of sheet for instructions)

RECEIVED
MAR 31 1989
FIRE DEPT.

Official Use Only
ID

(1) Business Name: Olin Mesa Corp.

(2) Business Phone Number: (415) 961-6372

(3) Facility Street Address: 1130 Terra Bella Ave.

(4) Mailing Address: 1130 Terra Bella Ave. City: Mt. View State: CA Zip Code: 94043

(5) Attention: Curt M. Richards

(6) Persons Responsible For:

	Name	Phone Number
APPLICATION	Curt M. Richards	(408) 996-2933
BUSINESS	Curt M. Richards	(408) 996-2933
PROPERTY	Archie J. Snider	(408) 982-0800

(7) Persons Responsible For Responding In An Emergency After Normal Work Hours

Name	Title	Home Phone Number	Work Phone Number
Curt M. Richards	Dir of Oper & Tech	(408) 996-2933	(415) 961-6372
Phil C. Auder	Project Engr Mgr	(408) 378-0742	(415) 961-6372
Steven T. Phenk	Manufacturing mgr	(415) 490-2761	(415) 961-6372
Mack Davis	Maintenance Foreman	(415) 967-6358	(415) 961-6372

(8) Business Activity Description: Company Headquarters and Manufacturing Facility

(9) Shift Times: First: 7:30 to 4:00 Second: 3:30 to 12:00 Third: 11:30 to 8:00

(10) Number of Employees Per Shift: First: 52 Second: ~10 Third: 3

(11) I declare under penalty of perjury, the foregoing information is true and correct.

Curt M. Richards (Print Name) Curt M Richards (Signature) 4/1/89 (Date)

HM3-1
Rev. 10/87

White: Applicant 3 Copies: Fire Department

Olin Mesa Corp.
A Subsidiary of Olin Corporation

1130 Terra Bella Avenue
Mountain View, CA 94043
Telephone (415) 961-6372
Fax (415) 965 4595
Telex 172211 HQ SUVL

Olin Mesa

CONFIDENTIAL

MANUFACTURING AREA
PROCESS LINE CHEMICALS

[A] - PRECLEAN:
6.4% HYDROCHLORIC ACID
3.2% AMMONIUM PERSULFATE
6.9% SULFURIC ACID

[B] - DEVELOPER:
0.35N MICROPOSIT^{R} 303A DEVELOPER:
(5% SODIUM HYDROXIDE)
10% HYDROCHLORIC ACID

[C] - TIN PLATING:
10% NEUTRA-CLEAN^{R} 7:
(25% BORIC ACID)
15% TINPOSIT^{R} LT-26:
(50% THIOUREA)
(11% SODIUM HYPOPHOSPHITE)
(9% STANNOUS CHLORIDE AS TIN)
1.2% HYDROCHLORIC ACID
0.6% PHOSPHORIC ACID

[D] - STRIPPER:
50% MICROPOSIT^{R} REMOVER 1112A:
(28% GLYCOL ETHERS)
(27% 2-BUTOXYETHANOL
(15% ETHANOLAMINE)
(14% DIPROPYLENE GLYCOL METHYL ETHER)
(1% FURFURL ALCOHOL)

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Mountain View, CA 94043
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Telex 172211 HO SUVL

Olin Mesa

CONFIDENTIAL

MANUFACTURING AREA
PROCESS LINE CHEMICALS
(CONTINUED)

[E] - GOLD PLATING:

50% NEUTRA-CLEAN® 68:
(20% SODIUM BISULFATE)
(1% NITRILOTRIACETICACID)
10% SULFURIC ACID
SELREX: NICKEL SULFAMATE SOLUTION (NICKEL PLATE):
(40-45% NICKEL SULFAMATE)
AUROSTRIKE GP GOLD SALTS (GOLD STRIKE):
(POTASSIUM GOLD CYANIDE)
AURONEL 6 GOLD SALTS (GOLD PLATE):
(POTASSIUM GOLD CYANIDE)

[F] - ETCHERS #1 & #2:

HIGH SPEED AC-CU GUARD REPLENISHER:
(19-27% AMMONIUM CHLORIDE)
(14-23% AMMONIUM HYDROXIDE)
(1-5% AMMONIUM CARBONATE)

[G] - COATER & BACKCOATER:

MICROPOSIT® 119S PHOTO RESIST:
(45% 2-ETHOXYETHYL ACETATE)
(10% O-CHLOROTOLUENE)
(5% N-BUTYL ACETATE)
(5% XYLENE)
(5% TOLUENE)
(CONTINUED)

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Telephone (415) 961-6372
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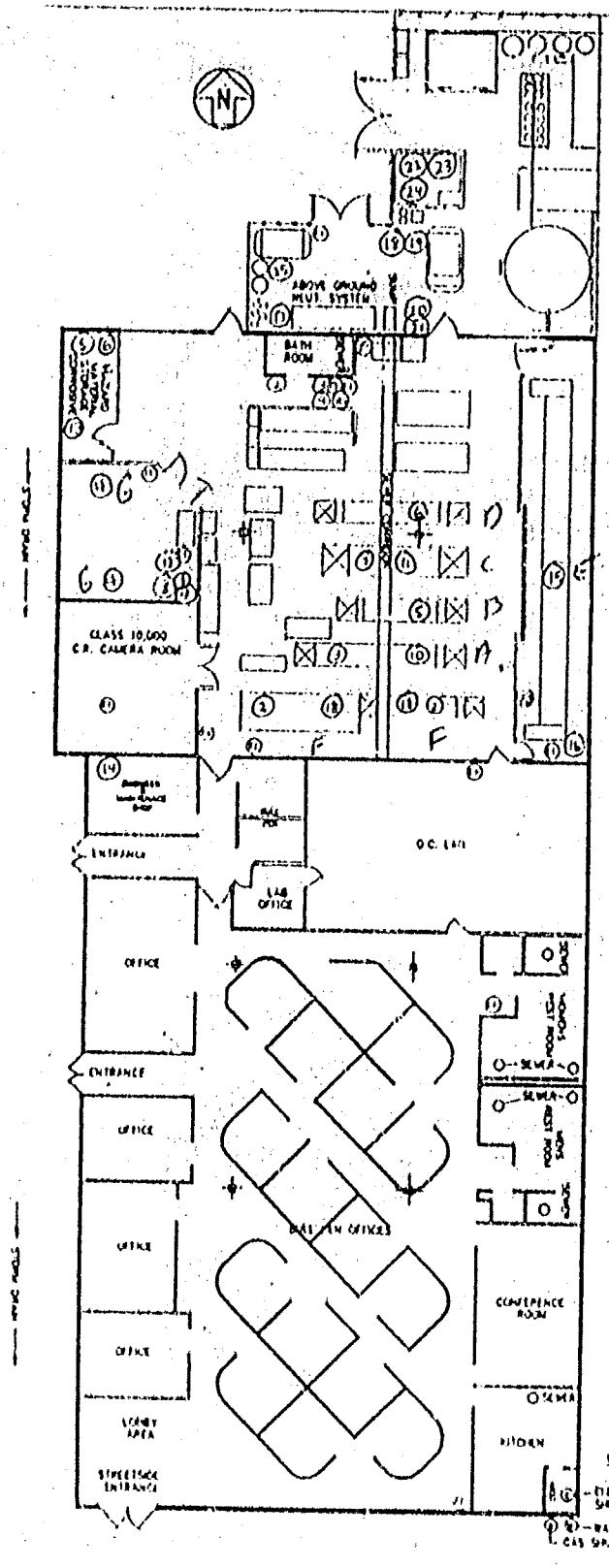
Olin Mesa

CONFIDENTIAL

MANUFACTURING AREA
PROCESS LINE CHEMICALS
(CONTINUED)

[G] - COATER & BACKCOATER:
(CONTINUED)

MICROPOSIT® 119 THINNER:
(70% 2-ETHOXYETHYL ACETATE)
(20% O-CHLOROTOLUENE)
(5% N-BUTYL ACETATE)
(5% XYLENE)
ACETONE
ISO-PROPYL ALCOHOL


N
BATH ROOM
CLASS 10,000 C.R. CAMERA ROOM
ENTRANCE
LAB OFFICE
OFFICE
ENTRANCE
OFFICE
OFFICE
OFFICE
LOBBY AREA
CONFERENCE ROOM
KITCHEN
ELECTRICAL SHUT OFF
WATER SHUT OFF
GAS SHUT OFF
OLIN MESA

CITY OF MOUNTAIN VIEW

HAZARDOUS MATERIALS DIVISION
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

HAZARDOUS MATERIALS INVENTORY STATEMENT
Amended 1988
(see back of sheet for instructions)

Page (1) 1 of Pages 2

Official Use Only
ID

Date (2) 04/01/89

Business Name
(3) Olin Mesa Corp.

Facility Street Number / Street Name
1130 Terra Bella Avenue

DOT CLASS (4)	Chemical Name/Trade Name (5)	Map Location (6)	Quantity & Physical State: Gas (Cu Ft) (7)	Liquid (Gal) (8)	Solid (Lbs) (9)	Tank (10)	Waste (11)	Waste Annual Throughput (12)
FL	Acetone	1		30				
Corr-L	Ammonium Hydroxide	2		30				
Corr-L	Hydrochloric Acid	3		30				
FL	2- Ethoxyethyl Acetate, 0-Chlorotoluene/Microposit 119 s Photo Resist/Microposit 119 Thinner	4		30				
Corr-L	Sodium Hydroxide/Microposit 303 A Developer	5		150				
Corr-L	Glycol Ethers, 2- Butoxyethanol Ethanolamine, Dipropylene Glycol Methyl ether/ Microposit Remover 1112 A	6		150				
Corr-L	Phosphoric Acid	7		30				
FL	2- Propanol	8		30				
Corr-L	Nitric Acid	9		30				
Corr-L	Sulfuric Acid	10		30				
Corr-L	Thiourea, Sodium Hypophosphite Stannous Chloride/ Tinposit LT-26	11		60	[illegible]	~~x~~	~~x~~	
FOL	~~Xanylenevent~~ Waste Solvent	12		60			x	165
Corr-S	Thiourea, Sodium Hypophosphite Stannous Chloride/ Tinposit LT-26	13			375			
FG	Acetylene	14		40				
Pois-L	Cyanide Gold Solution Potassium Gold Cyanide	15		80				
Pois-S	Gold Salts Potassium Gold Cyanide	16			10			

HM3-3 (Rev. 11/88) White: Applicant 3 Copies Fire Department

CITY OF MOUNTAIN VIEW

HAZARDOUS MATERIALS DIVISION
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

HAZARDOUS MATERIALS INVENTORY STATEMENT
Amended 1988
(see back of sheet for instructions)

Page 3 of Pages 2

Official Use Only
(10) | | | | | |

(1) Date: (2) 04/01/89

Business Name
(3) Olin Mesa Corp.

Facility Street Number: 1130 Street Name: Terra Bella Ave.

DOT CLASS (4)	Chemical Name/Trade Name (5)	Map Location (6)	Quantity & Physical State: Gas (Cu Ft) (7)	Liquid (Gal) (8)	Solid (Lbs) (9)	Tank (10)	Waste (11)	Waste Annual Throughput (12)
OXY-S	Ammonium Persulfate	17		12	375			
Corr-L	Ammonium Hydroxide, Ammonium Chloride, Ammonium Carbonate/High Speed AC- CU- Guard Replenisher	18		220				
Corr-L	Ammonium Chloride, Ammonium Hydroxice/High Speed Ac- CU- Guard Starter	19		110				
Corr-L	Sodium Hydroxide	20		30				
Corr-L	Sulfuric Acid	21		30				
Corr-L	Waste Corrosive Liquid	22		275			x	1980
Corr-L	Waste Hydrochloric Acid Mixture	23		275			x	660
Corr-L	Waste Ammonium Hydroxide Solution	24		165			x	1980
IRG	Nitrogen	25	80					

CITY OF MOUNTAIN VIEW

FIRE PREVENTION BUREAU
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

FACILITY PERMIT FEE WORKSHEET

Amended 1987
(see back of sheet for instructions)

Official Use Only

ID

(1) Business Name: Olin Mass Corp.

(2) Date: 04/01/89

Facility Street Number(s) Street Name: 1130 Terra Bella Avenue

DOT CLASS (3)	Aggregate Quantity (Cu Ft)	(Gal)	(Lbs) (4)	Quantity Range and Fees 1	2	3 (5)	4	5	6 (Refer To Instructions)	DOT Class Abbrev. (6)
Blasting Agent				100	200	300	350	400		BLST
*City Reg. Mats.—Liquid				100	125	150	175	200		CRM-L*
*City Reg. Mats.—Solid				100	125	150	175	200		CRM-S*
Combustible Liquid				100	150	200	250	300		CL
Corrosive Gas				100	200	300	350	400		CORR-G
Corrosive Liquid		1615		100	200	(300)	350	400		CORR-L
Corrosive Solid			375	(100)	200	300	350	400		CORR-S
Etiologic Agent				150	200	200	200	200		ETI
Explosives A				200	300	400	400	400		EXP A
Explosives B				150	200	300	400	400		EXP B
Explosives C				100	150	200	300	400		EXP C
Flammable Gas	40			(100)	200	300	350	400		FG
Flammable Liquid		150		100	(150)	200	250	300		FL
Flammable Solid				100	150	200	250	300		FS
Irritant—Liquid				100	150	200	250	300		IRR-L
Irritant—Solid				100	150	200	250	300		IRR-S
Nonflammable Gas	80			(100)	150	200	250	300		NFG
Organic Peroxide—Liquid				100	200	300	400	500		PEROX-L
Organic Peroxide—Solid				100	200	300	400	600		PEROX-S
Other Reg. Mats.—Liquid				100	150	175	200	250		ORM-L
Other Reg. Mats.—Solid				100	150	175	200	250		ORM-S
Oxidizer—Liquid				100	200	300	350	400		OXY-L
Oxidizer—Solid			375	(100)	200	300	350	400		OXY-S
Poison A—Gas				100	200	300	400	500		POIS-G
Poison A— or B—Liquid		80		100	(200)	300	400	500		POIS-L
Poison A— or B—Solid			10	(100)	200	300	400	500		POIS-S
RADIOACTIVE			1	(125)	125	125	125	125		RAD
CRYOGEN				100	200	300	350	400		CRYO

(7) TOTAL FEE DUE: $ 525 + 350 + 300 + ____ + ____ + ____ = $ 1275

*City Regulated Materials *not* classified by Department of Transportation (DOT)

Make check or money order payable to the City of Mountain View and attach to this worksheet.

HM3-4 (Rev. 12/86) White: Applicant 3 Copies: Fire Department

CITY OF MOUNTAIN VIEW
FIRE DEPARTMENT

EMERGENCY RESPONSE PLAN
Section I: Evacuation Procedures

This emergency response plan describes the personnel, procedures, and equipment your facility has available to respond to a release or threatened release of the hazardous materials you store or use. This plan is for the protection of your and your employees. For small facilities, this plan may be sufficient to adequately address all your emergency response concerns. For larger or more complex facilities, supplemental and detailed emergency response information should be maintained on site and be available for review by the Fire Department.

1. *By which method(s) is the Emergency Coordinator (EC) at your facility notified that an emergency (i.e., an actual or threatened hazardous materials release) is taking place? (Check applicable items.)*

- [X] Alarms: Name of Manufacturer ADT
  Last Test Date 03/27/89 Test Frequency monthly
- [ ] Horns: Last Test Date _____ Test Frequency _____
- [ ] Emergency Phone Number: Number _____
- [ ] Shouting
- [X] Other Intercom in manufacturing area

2. *Once the EC has been notified of an emergency situation, what outside agencies does he/she notify? (Check applicable items.)*

- [ ] Agency: *FIRE DEPARTMENT* Phone *9 1 1*
- [ ] Agency: *State Office of Emergency Services* Phone *1-800-852-7550*
- [ ] Agency: _____ Phone _____
- [ ] Agency: _____ Phone _____

3. *Indicate the extent of your evacuation pre-planning. (Check applicable items.)*

- [X] Immediate area evacuation routes defined and procedures developed.
- [X] Entire building evacuation procedures developed.
- [X] Assembly areas pre-planned.
- [ ] Evacuation maps posted.
- [ ] Other: _____

4. *Should personnel be injured during the emergency, your facility must have a nearby clinic/hospital available for treatment:*

Medical Facility Name El Camino Hospital
Medical Facility Address 2500 Grant Rd. Mt. View
Medical Facility Phone Number (24-hour) (415) 940-7051
Approximate Distance to Medical Facility 2 miles

CITY OF MOUNTAIN VIEW
FIRE DEPARTMENT

EMERGENCY RESPONSE PLAN
Section II: Spill Control / Mitigation Equipment

INSTRUCTIONS: In the blank form provided describe the safety, spill reponse, and communication equipment you have in place at your facility for use in emergency situations. If practical, report the equipment according to individual job, shop, or work activity area within you facility. If applicable, include the elements listed in legend.

PERSONAL PROTECTIVE AND SAFETY EQUIPMENT

Aprons
Gloves
Coats
Chemical Suits
Boots
Safety Glasses
Faceshield
Hard Hats
Cartridge Respirators
Self Contained Breathing Apparatus (SCBA)
First Aid Kits
Exhaust Hood/Vapor Scrubbers
First Aid Stations
Chemical Antidotes
Eye Wash/Safety Shower

SPILL CONTROL/MONITORING EQUIPMENT

Fire Blankets
Fire Extinguishers (Type A, B, C, and D)
Fire Hoses
Chemical Vapor Monitoring Equipment (Type)
Spill Cart
Chemical Absorbents
Neutralizers
Sand
Leak Kits (Chlorine)
Tank Leak
Monitors
Plugging/Diking Materials
Pumps

COMMUNICATIONS EQUIPMENT

Pager
Telephones
Intercoms
Portable Radio(s)
Verbal

LOCATION (SHOP OR AREA)	PERSONAL PROTECTIVE & SAFETY EQUIPMENT/AMOUNT	EMERGENCY RESPONSE SPILL EQUIPMENT/AMOUNT	COMMUNICATIONS EQUIPMENT	INSPECTION FREQUENCY	NAME OF INSPECTOR/TITLE
EXAMPLE: Print Shop	*Cartridge Respirators - 4 Shop Coats-4, Gloves-4pr Exhaust Hood-1*	*Fire Extinguishers-1 Sand-50 lbs.*	*Telephone Verbal*	*Monthly*	*John Doe/Lead Technician*
Office		Fire Extinguisher Fire Hose	Telephone Verbal	Monthly "	
Manufacturing	Safety Glasses Face Shields Goggles Aprons Eye/wash/ Safety shower	Fire Extinguisher Spill Cart Chemical Absorbents Diking Material	Telephone Verbal Intercom	" " "	
Laboratory		Fire Extinguisher	Telephone Verbal	" "	

CITY OF MOUNTAIN VIEW
FIRE DEPARTMENT

EMERGENCY RESPONSE PLAN
Section III: Emergency Response Training Program

1. PERSON RESPONSIBLE FOR EMERGENCY RESPONSE TRAINING PROGRAM:
Name CURT M. RICHARDS Title DIR OPERATIONS Phone (415) 961-6372.

2. TRAINING REQUIREMENTS (Check all applicable items.)

All employees are trained in the following procedures:

- [X] Notification of emergency response coordinator
- [X] Notification of external emergency response organizations (e.g. Fire Department)
- [X] Location and content of emergency response plan
- [X] Evacuation

Chemical handlers are additionally trained in the following:

- [X] Safe methods for handling and storage of hazardous materials
- [X] Proper use of personal protection equipment
- [X] Locations and proper use of fire and spill control equipment
- [X] Specific hazards of each chemical to which they may be exposed, including the pathways of exposure (i.e., skin absorption, inhalation, ingestion)

Emergency response team members are additionally trained in the following procedures:

- [X] Shutdown of operations
- [X] Use, maintenance, and replacement of emergency response equipment

- [X] ALL PERSONNEL RECEIVE APPROPRIATE EMERGENCY RESPONSE TRAINING WITHIN SIX MONTHS OF HIRING
- [X] REFRESHER TRAINING IS PROVIDED AT LEAST ANNUALLY

3. PERSONNEL TRAINING RECORDS

The following training records are maintained for each employee:

- [X] Type and amount of introductory and continuing training
- [X] Date that training was completed
- [X] Description of facility emergency reponse drills
- [ ] Former employees' training records are retained for at least three years

Your Emergency Response Plan must be on-site and available for review by the Fire Department.

Emergency Response Plan Location FILES

Responsibe Person CURT M. RICHARDS

MESA
Technology

1130 Terra Bella Avenue
Mountain View, CA 94043

Phone: (415) 961-6372
Telex: 172211 HQ SUVL
FAX: (415) 965-4595

January 13, 1988

Gary Leinweber
Fire Department
City of Mountain View
Mountain View, CA 94041

Dear Gary:

This letter is written to follow up a conversation with Chris regarding permits required to operate an Atomic Absorption Spectrometer.

The vendor of the equipment, Perkin Elmer, was not aware of any permitting requirements and Chris confirmed that no permit is required.

Two (2) 1 B cylinders containing about 9000 liters of acetylene and four (4) # 1 size air cylinders containing about 6200 liters are required to operate the unit.

If you have any questions, please contact me at (415) 961-6372.

Sincerely,

Curt M. Richards

Curt M. Richards
Director of Operations

CITY OF MOUNTAIN VIEW

MUNICIPAL OPERATIONS CENTER
TELEPHONE:

231 NORTH WHISMAN ROAD
POST OFFICE BOX 7540
MOUNTAIN VIEW, CA 94039

October 28, 1987

Mr. C. M. Richards
Director of Operations
Mesa Technology
1130 Terra Bella Avenue
Mountain View, California

RE: TEMPORARY REINSTATEMENT OF INDUSTRIAL WASTE DISCHARGE PERMIT

Dear Mr. Richards:

On October 26, 1987, at 0200 hours, a fire occurred at Mesa Technology. Due to this fire, your Industrial Waste Discharge Permit was suspended for a period not to exceed forty-five (45) days in accordance with City of Mountain View Municipal Code (MVMC), section 35.32.3. On October 27, 1987, you made a verbal request to the Industrial Waste Water Discharge Specialist that the Industrial Waste Discharge Permit be reinstated, based on the fact that an investigation showed no damage had occurred to the gold plating line, to the internal plumbing running under the damaged plating line, and to the waste treatment system. A joint site inspection was conducted by the Fire Marshal, the Hazardous Material Officer, and the Industrial Waste Water Discharge Specialist during the afternoon of October 27, 1987, in which we concurred with your findings. Based on these facts, the Industrial Waste Discharge Permit is reinstated, effective October 28, 1987, for a period of two (2) weeks, expiring at 2400 hours (midnight) on November 11, 1987.

Mesa Technology may resume discharging industrial wastes into the City of Mountain View sanitary sewer collection system in accordance with all conditions and regulations as outlined in the Industrial Waste Ordinance (MVMC 35.32). The following conditions shall also apply:

1a. Mesa shall immediately initiate a self-monitoring sampling program to monitor discharges of copper and lead. This program shall include four (4) consecutive daily composite samples taken each week for a period of not less than two (2) weeks. This program shall continue until compliance has been shown for a consecutive two (2) week period. Your discharge limits for copper and lead are 2.0 mg/L and 0.5 mg/L respectively.

1b. Each daily composite sample shall consist of hourly grab samples taken during each and all hours of operation. Upon compositing of the last hourly grab sample, the pH of the composite sample shall be measured. The pH, collection times, date, and name of the person collecting the sample shall be logged onto the sample bottle. The composite sample shall then be preserved by adding nitric acid until a pH of less than two (2) is obtained.

1c. Each composite sample shall be analyzed for both copper and lead concentrations by an analytical laboratory approved by the State of California Department of Health Services for such analysis. The analysis shall be conducted using Environmental Protection Agency (USEPA) approved standard methods for total digestion of heavy metals. Results of the analysis shall include the sample pH prior to preservation, the sample pH at the time of analysis, collection times, collection date, the name of the person collecting the sample, date of analysis, and method of analysis.

2a. Mesa also shall immediately initiate a self-monitoring sampling program to monitor discharges of cyanide. This program shall include consecutive hourly grab samples taken once each week during hours of operation of the gold plating line, for a period of not less than two (2) weeks. This program shall continue until compliance has been shown for a consecutive two (2) week period. Your discharge limits for cyanide are 1.0 mg/L.

2b. The pH prior to peservation, collection time, date, and name of the person collecting the grab sample shall be logged onto the cyanide sample bottle. The sample shall then be preserved by adding sodium hydroxide until a pH of greater than twelve (12) is obtained. The sample shall then be refrigerated in the dark at four (4) degrees centigrade.

2c. At the lab each cyanide grab sample shall be combined to produce a single composite sample. This composite sample shall be analyzed for cyanide concentrations using USEPA approved standard methods for total digestion of heavy metals. Results of the analysis shall include the sample pH prior to preservation, the sample pH at the time of analysis, collection times, collection date, the name of the person collecting the sample, date of analysis, and method of analysis.

3. The results of all self-monitoring compliance samples shall be forwarded as soon as they are available to:

Russ Frazer
Industrial Waste Water Discharge Specialist
City of Mountain View
231 North Whisman Road
Mountain View, California 94043

Full reinstatement of the Industrial Waste Water Discharge Permit shall occur when the self-monitoring program outlined above shows compliance with the Industrial Waste Ordinance. If we can be of any further assistance, please do not hesitate to call either Russ Frazer or myself at 415-966-6329.

Sincerely,

Thomas Frutchey

Thomas Frutchey
Maintenance Director

cc: Industrial Waste Water Discharge Specialist
Fire Marshal
Hazardous Materials Officer
City Attorney
PARWQCP - Doris Maez
Mesa Technology - Bill Bridges
Mesa Technology - Raymond Manley

CITY OF MOUNTAIN VIEW

Building Inspection
(415) 966-6313

444 Castro Street
P.O. Box 7540
Mountain View, CA 94039

November 18, 1987

Mr. Ed Iglesias
Hansen Brothers Construction
3079 Lawrence Expressway
Santa Clara, CA 95051

Dear Mr. Iglesias:

This letter is a follow-up to our meeting concerning the H6 occupancy. I met with Bob Francone and John Stafford of the Fire Department and Gary Leinweber of the Hazardous Materials Division regarding your plans. In evaluating your plans, we as a group have developed the following list of requirements which must be included in your plan check and eventually integrated into the new construction at 1130 Terra Bella Avenue. The list of requirements is as follows:

1. Provide a site plan showing the HPM storage area with a north arrow and dimensions to property lines, other buildings and anything else that could clarify a plan check of the site. Also, indicate the path of travel from the storage area to the H6 area.

2. Provide complete drawings of the storage unit itself. These drawings should identify materials used in construction, containment systems, electrical and/or mechanical systems (if present), security systems, fire prevention systems and any other information that could clarify this storage area. I suggest a section of the building as the best way to answer some of these questions.

3. Provide manufacturer's literature on the HPM transportation vehicle.

4. In the revised drawings, please show the following: two exits from the gold line area, two exits from the camera room and two exits from the clean room. In all exiting situations, the doors must swing in the direction of egress and be equipped with panic hardware.

5. Two exits are required from the main H6 area, with one going directly to the outside. In your floor plan, the rear exits meet code, but the exit through Door 6 into the office must

be changed to a door entering a one-hour rated exit system (i.e., corridor). See Sheet A-2 for clarification of this requirement.

6. Label all rooms and identify the processes that take place in these rooms. This includes the area marked "Lab."

7. Give a complete explanation of the secondary containment system for the whole H6 area. Supply literature on the materials used and drawings clarifying the construction method. A suggestion here is to use another section detail in conjunction with other drawings.

8. Supply information regarding sprinkler densities and give verification that these densities are maintained.

9. Smoke detectors are required in the return air ducts in order that the HVAC systems would be shut down in case of a fire. For further explanation of this requirement, see Section 911(b)(3) in the 1985 UBC.

10. Supply cut sheets on all detection systems FOR ~~and~~ any and all equipment or processes taking place in this area.

11. Supply information on all hood and duct systems used in this area, including the scrubbers.

12. Supply information on the emergency power supply. This power must be capable of maintaining emergency systems in operation for a minimum of two hours in the event of emergency.

13. For any clarifications, I suggest that you refer to Section 911 of the 1985 UBC regarding H6 areas.

Sincerely,

Ron Geary
Plan Checker

RG/EGJ
984-11-17L

CITY OF MOUNTAIN VIEW

MUNICIPAL OPERATIONS CENTER
TELEPHONE: (415) 966-6329

231 NORTH WHISMAN ROAD
POST OFFICE BOX 7540
MOUNTAIN VIEW, CA 94039

October 26, 1987

Mr. C. M. Richards
Director of Operations
Mesa Technology
1130 Terra Bella Avenue
Mountain View, California

RE: SUSPENSION OF INDUSTRIAL WASTE DISCHARGE PERMIT DUE TO FIRE

Dear Mr. Richards,

On October 26, 1987, at 0200 hours, a fire occurred at Mesa Technology. A preliminary investigation has suggested that the fire was caused by a malfunctioning immersion heater used to heat a deionized rinse water. The fire ruptured a container holding acid (NCl), which in turn resulted in an acid spill reaching an outside storm water drain inlet. This spill was successfully contained by the Fire Department and cleaned up by the Maintenance Department.

On December 18, 1985, Mesa Technology was issued an Industrial Waste Discharge Permit in accordance with the City of Mountain View Municipal Code (MVMC), section 35.32.1 (Industrial Waste Ordinance). Due to the fire, this permit is herewith suspended for a period not to exceed forty-five (45) days in accordance with MVMC 35.32.3. Mesa Technology shall immediately cease and desist all discharges of industrial wastes into the City of Mountain View sanitary sewer collection system (MVMC 35.32.3b). This includes all discharges except domestic sewage (restrooms, drinking water, etc.).

Mesa Technology is entitled to, upon request, an informal hearing before the City Manager, or his delegate, to discuss this suspension. If so desired, Mesa Technology must submit in writing to the Maintenance Director a request for an informal hearing within ten (10) calender days from the date of this letter (MVMC 35.32.4b). An informal hearing will be scheduled within five (5) working days from receipt of the request. All parties involved have the right to be represented by counsel (MVMC 35.32.4c).

Mesa Technology shall not resume discharging industrial wastes into the City of Mountain View sanitary sewer collection system until written notification has been received from the Maintenance Director stating that the Industrial Waste Discharge Permit has been reinstated. This permit can be reinstated as soon as no further conditions exist, either caused by the fire or not, that are in violation of the Industrial Waste Ordinance. Please contact Russ Frazer, the City's Industrial Waste Water Discharge Specialist, at 415-966-6329, to initiate the repermitting process.

If Russ or I can be of any further assistance, please do not hesitate to call .

Sincerely,

Thomas Frutchey

Thomas Frutchey
Maintenance Director

cc: Industrial Waste Water Discharge Specialist
Fire Marshal
Hazardous Materials Officer
City Attorney
Mesa Technology - Bill Bridges
Mesa Technology - Raymond Manley

Olin Mesa Corp.
A Subsidiary of Olin Corporation

1130 Terra Bella Avenue
Mountain View, CA 94043
Telephone (415) 961 6372
Fax (415) 965 4595
Telex 172211 HQ SUVL

Olin Mesa

CERTIFIED MAIL.

Mountain View Fire Department
1000 Villa Street
Mountain View, CA. 94041

January 19, 1989

Gentlemen:

Olin Mesa Corp. generates small amounts of waste materials regulated by the California Department of Health Services. In addition, moderate amounts of hazardous materials are stored and used on-site.

As required by the Health and Safety Code, Olin Mesa is providing you with copies of the Emergency Response Plans, Contingency Plans, and Preparedness and Prevention Plans which discuss our operations and give pertinent information for your use in the event of an emergency situation.

If you have any questions, please call me at (415) 961-6372.

Very truly yours,

Curt M. Richards

Curt M. Richards
Director of Operations
Olin Mesa Corporation

CITY OF MOUNTAIN VIEW

HAZARDOUS MATERIALS DIVISION
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

GENERAL FACILITY MAP
Amended 1989
(see back of sheet for instructions)

Official Use Only

ID

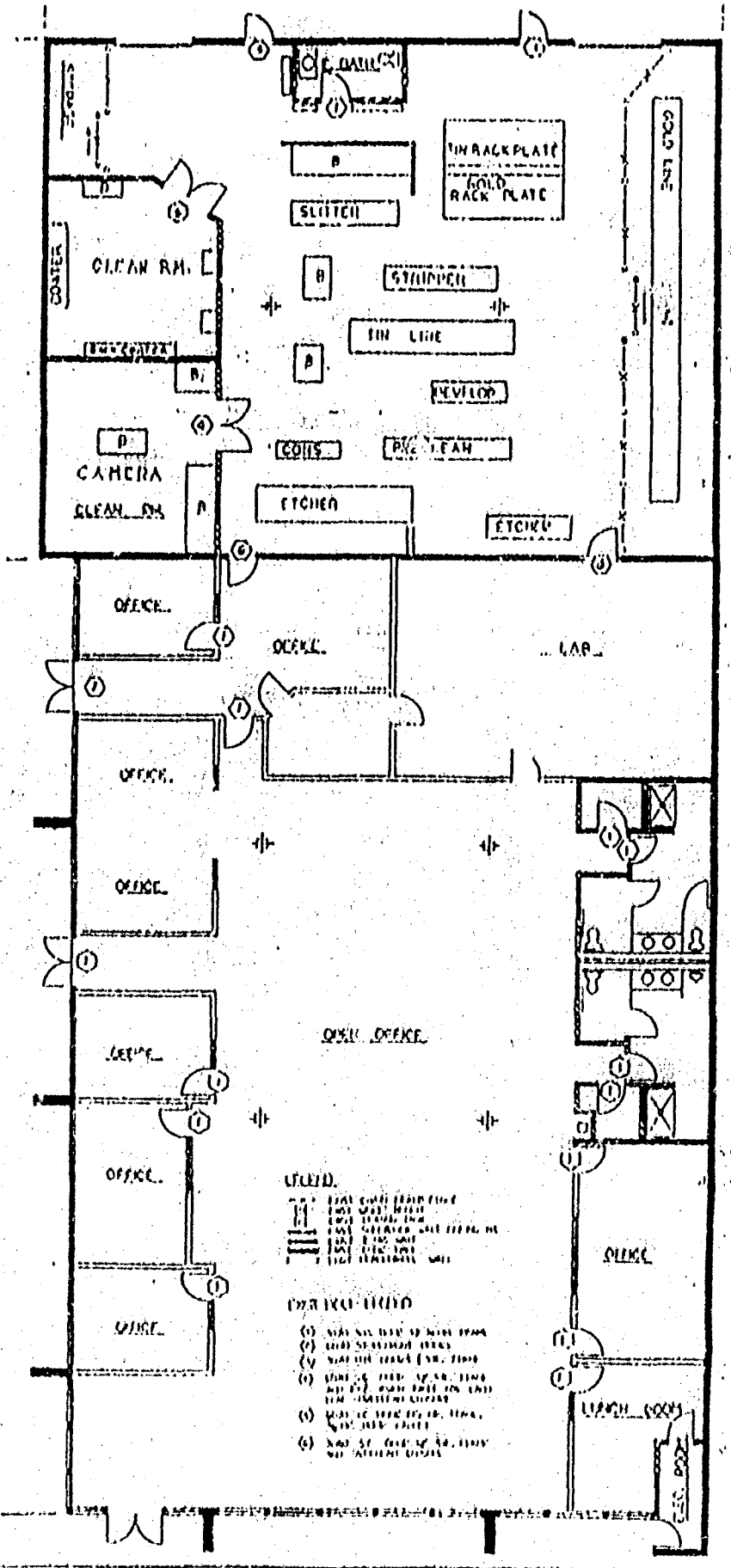
UPDATE

Business Name: OLIN MESA CORP.

Date: 01/19/89

Facility Street Number: 1130 Street Name: TERRA BELLA AVE.

Provide a simple line drawing below following the example and instructions on the back of this form.


TIN RACK PLATE
GOLD RACK PLATE
SLITTER
CLEAN RM.
STRIPPER
TIN LINE
DEVELOP
COILS
ETCHER
ETCHER
CAMERA
OFFICE
OFFICE
LAB
OFFICE
OFFICE
OFFICE
OFFICE
OFFICE
OFFICE
OFFICE
OFFICE
OFFICE
LUNCH ROOM

CITY OF MOUNTAIN VIEW

HAZARDOUS MATERIALS DIVISION
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

HAZARDOUS MATERIALS INVENTORY STATEMENT

Amended 1988
(see back of sheet for instructions)

Official Use Only
ID

UPDATE

(1) Page 1 of Pages 2

(2) Date 01/19/89

(3) Business Name: OLIN MESA CORP.

Facility Street Number / Street Name: 1130 TERRA BELLA AVENUE

DOT CLASS (4)	Chemical Name/Trade Name (5)	Map Location (6)	Quantity & Physical State: Gas (Cu Ft) (7)	Liquid (Gal) (8)	Solid (Lbs) (9)	Tank (10)	Waste (11)	Waste Annual Throughput (12)
FL	Acetone			30				
Corr-L	Ammonium Hydroxide			30				
Corr-L	Hydrochloric Acid			30				
FL	2- Ethoxyethyl Acetate, O-Chlorotoluene/Microposit 119 S Photo Resist/Microposit 119 Thinner			30				
Corr-L	Sodium Hydroxide/Microposit 303 A Developer			150				
Corr-L	Glycol Ethers, 2- Butoxyethanol Ethanolamine, Dipropylene Glycol Methyl Ether/Microposit Remover 1112 A			150				
Corr-L	Phosphoric Acid			30				
FL	2- Propanol			30				
Corr-L	Nitric Acid			30				
Corr-L	Sulfuric Acid			30				
Corr-L	Thiourea, Sodium Hypophosphite, Stannous Chloride/Tinposit LT-26			60				
FL	Waste Solvent			60			X	165
Corr-S	Thiourea, Sodium Hypophosphite, Stannous Chloride/Tinposit LT-26				375			

HM3-3 (Rev. 11/88) White: Applicant 3 Copies Fire Department

CITY OF MOUNTAIN VIEW

HAZARDOUS MATERIALS DIVISION
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

HAZARDOUS MATERIALS INVENTORY STATEMENT

Amended 1988
(see back of sheet for instructions)

Official Use Only
ID

UPDATE

Page (1) 2 of Pages 2

Date (2) 01/19/89

Business Name
(3) OLIN MESA CORP.

Facility Street Number / Street Name
1130 TERRA BELLA AVENUE

DOT CLASS (4)	Chemical Name/Trade Name (5)	Map Location (6)	Quantity & Physical State: Gas (Cu Ft) (7)	Liquid (Gal) (8)	Solid (Lbs) (9)	Tank (10)	Waste (11)	Waste Annual Throughput (12)
OXY-S	Ammonium Persulfate				375			
Corr-L	Ammonium Hydroxide, Ammonium Chloride Ammonium Carbonate/High Speed AC- CU- Guard Replenisher			220				
Corr-L	Ammonium Chloride, Ammonium Hydroxide/High Speed AC- CU- Guard Starter			110				
Corr-L	Sodium Hydroxide			30				
Corr-L	Sulfuric Acid			30				
Corr-L	Waste Corrosive Liquid			275			x	1980
Corr-L	Waste Hydrochloric Acid Mixture			275			x	660
Corr-L	Waste Ammonium Hydroxide Solution			165			x	1980

UPDATE

CITY OF MOUNTAIN VIEW
FIRE DEPARTMENT

EMERGENCY RESPONSE PLAN
Section I: Evacuation Procedures

This emergency response plan describes the personnel, procedures, and equipment your facility has available to respond to a release or threatened release of the hazardous materials you store or use. This plan is for the protection of your and your employees. For small facilities, this plan may be sufficient to adequately address all your emergency response concerns. For larger or more complex facilities, supplemental and detailed emergency response information should be maintained on site and be available for review by the Fire Department.

1. *By which method(s) is the Emergency Coordinator (EC) at your facility notified that an emergency (i.e., an actual or threatened hazardous materials release) is taking place? (Check applicable items.)*

☒ Alarms: Name of Manufacturer ADT
Last Test Date 12/20/88 Test Frequency MONTHLY

☐ Horns: Last Test Date _____ Test Frequency _____

☐ Emergency Phone Number: Number _____

☐ Shouting

☐ Other _____

2. *Once the EC has been notified of an emergency situation, what outside agencies does he/she notify? (Check applicable items.)*

☐ Agency: *FIRE DEPARTMENT* Phone *9 1 1*

☐ Agency: *State Office of Emergency Services* Phone *1-800-852-7550*

☐ Agency: _____ Phone _____

☐ Agency: _____ Phone _____

3. *Indicate the extent of your evacuation pre-planning. (Check applicable items.)*

☐ Immediate area evacuation routes defined and procedures developed.

☐ Entire building evacuation procedures developed.

☐ Assembly areas pre-planned.

☐ Evacuation maps posted.

☐ Other: _____

4. *Should personnel be injured during the emergency, your facility must have a nearby clinic/hospital available for treatment:*

Medical Facility Name EL CAMINO HOSPITAL
Medical Facility Address 2500 GRANT RD. MT. VIEW
Medical Facility Phone Number (24-hour) (415) 940-7055
Approximate Distance to Medical Facility 3 MILES

Olin Mesa Corp.
A Subsidiary of Olin Corporation

1130 Terra Bella Avenue
Mountain View, CA 94043
Telephone (415) 961 6372
Fax (415) 965 4595
Telex 172211 HQ SUVL

Olin Mesa

Olin Mesa Corp.

Contingency Plan
(1/19/89)

Introduction:

The Contingency Plan is based on the Business Plan for Emergency Response (HM 3-5) which is required for the City of Mountain View. It is attached for reference and supplemented by the following information. The attached HM 3-5 describes arrangements with the local authorities, emergency coordinators, emergency equipment, and the evacuation plan. Hazardous wastes are defined and discussed in the Waste Management Plan.

Purpose:

The purpose of the contingency plan is to minimize hazards to human health or the environment which results from fires or releases of hazardous wastes into the environment via the storm drains, the sewers or other means.

These provisions should be implemented as soon as possible whenever an incident occurs which threatens to harm human health or the environment by the release of hazardous wastes.

Procedures:

Upon the occurrence of an incident serious enough to harm human health or to threaten the environment the following steps shall be implemented immediately by the Emergency Coordinator (EC):

(a) Activate the internal alarm systems.

(b) Stop leak or continuing problem.

(c) Begin cleanup.

(d) The EC shall quantify the materials spilled and the threat to the environment.

(e) If help is required call the following as needed:

1) I.T. Corporation (415) 372-9100
3010 Zanker Road, San Jose
Emergency Spill Response/Clean Up
2) Ambulance - Call 911
3) El Camino Hospital (415) 940-7055
2500 Grant Road, Mountain View
4) Mountain View Fire Department - 911 or (415) 966-6378
5) Mountain View Police Department - 911 or (415) 966-6344
6) State Office of Emergency Services - 1-800-852-7550
2800 Meadowview Road, Sacramento 95832
7) Palo Alto Wastewater Treatment Plant - (415) 329-2117
2501 Embarcadero Way, P.O. Box 10250, Palo Alto 94303

(f) Upon the release of hazardous wastes to the environment the EC shall notify the State Office of Emergency Services and give the following information:

1) Name and phone number of reporter.

2) Name and address of facility.

3) Time and type of incident.

4) Name and quantities of materials.

5) Injuries, if any.

6) Possible hazards associated with the incident.

(g) During an emergency the EC shall take all necessary steps to ensure that additional fires or releases do not occur, recur, or spread. These measures include stopping operations, containing spilled wastes, etc.

(h) The EC shall provide for the clean up of spills or residues either by in-house personnel or by contract personnel, e.g., I.T. Corporation as listed. Minor spills should be cleaned up according to the Waste Management Plan.

(i) The EC shall provide for that no incompatible wastes are handled in the affected area until the clean up is completed and that all emergency equipment is cleaned and readied for future service before operations resume.

(j) The EC or other management personnel shall notify the Office of Emergency Services and others previously notified that the clean up is completed before resuming operations in the affected areas.

(k) Details of the incident including the time and date shall be entered into the operating record by memo and a written report made within 15 days to the State as per HSC 67145 (J) (1-7). The report shall include the following items:

1) Name, address, and telephone number of Olin Mesa.

2) Date, time and type of incident (e.g. fire, explosion).

3) Names and quantities of material involved.

4) Extent of injuries, if any.

5) An assessment of hazards, where applicable.

6) Quantity and disposition of recovered materials resulting from incident.

Olin Mesa Corp.
A Subsidiary of Olin Corporation

1130 Terra Bella Avenue
Mountain View, CA 94043
Telephone (415) 961 6372
Fax (415) 965 4595
Telex 172211 HC SUVI

Olin Mesa

CERTIFIED MAIL.

Mountain View Fire Department
1000 Villa Street
Mountain View, CA 94041

January 27, 1989

UPDATE

Gentlemen:

Olin Mesa Corp. generates small amounts of waste materials regulated by the California Department of Health Services. In addition, moderate amounts of hazardous materials are stored and used on-site.

As required by the Health and Safety Code, Olin Mesa is providing you with copies of the Emergency Response Plans, Contingency Plans, and Preparedness and Prevention Plans which discuss our operations and give pertinent information for your use in the event of an emergency situation.

On January 19, 1989, a Contingency Plan was sent to you, however, it failed to list Olin Mesa personnel who could be contacted in an emergency. The revised plan includes that list. Please destroy the previous plan.

If you have any questions, please call me at (415) 961-6372.

Very truly yours,

Curt M. Richards

Curt M. Richards
Director of Operations
& Technology
Olin Mesa Corp.

Olin Mesa Corp.
A Subsidiary of Olin Corporation

1130 Terra Bella Avenue
Mountain View, CA 94043
Telephone (415) 961 6372
Fax (415) 965-4535
Telex 172211 HQ SUVL

Olin Mesa

Olin Mesa Corp.

Contingency Plan
(1/27/89 UPDATE)

Introduction:

The Contingency Plan is based on the Business Plan for Emergency Response (HM 3-5) which is required for the City of Mountain View. It is attached for reference and supplemented by the following information. The attached HM 3-5 describes arrangements with the local authorities, emergency coordinators, emergency equipment, and the evacuation plan. Hazardous wastes are defined and discussed in the Waste Management Plan.

Purpose:

The purpose of the contingency plan is to minimize hazards to human health or the environment which results from fires or releases of hazardous wastes into the environment via the storm drains, the sewers or other means.

These provisions should be implemented as soon as possible whenever an incident occurs which threatens to harm human health or the environment by the release of hazardous wastes.

Procedures:

Upon the occurrence of an incident serious enough to harm human health or to threaten the environment the following steps shall be implemented immediately by the Emergency Coordinator (EC):

(a) Activate the internal alarm systems.

(b) Stop leak or continuing problem after adequate ventilation is available.

(c) Begin cleanup after adequate ventilation is available.

(d) The EC shall quantify the materials spilled and the threat to the environment.

(e) If help is required call the following as needed:

Olin Mesa Personnel (EC by priority)
Curt Richards 20193 Marilla Ct., Saratoga (408) 996-2933
Phil Audet 585 Corliss Way, Campbell (408) 378-0742
Steven Shonk 39847 Riata Ct. Fremont (415) 490-2761
Scott Voss 5 Fremontia, Portola Valley (415) 851-3228
Jeannette Opalski 1700 Halford Ave.#319, Santa Clara (408) 296-6309

1) I.T. Corporation (415) 372-0100
3010 Zanker Road, San Jose
Emergency Spill Response/Clean Up
2) Ambulance - Call 911
3) El Camino Hospital (415) 940-7055
2500 Grant Road, Mountain View
4) Mountain View Fire Department - 911 or (415) 966-6378
5) Mountain View Police Department - 911 or (415) 966-6344
6) State Office of Emergency Services - 1-800-852-7550
2800 Meadowview Road, Sacramento 95832
7) Palo Alto Wastewater Treatment Plant - (415) 329-2117
2501 Embarcadero Way, P.O. Box 10250, Palo Alto 94303

(f) Upon the release of hazardous wastes to the environment the EC shall notify the State Office of Emergency Services and give the following information:

1) Name and phone number of reporter.

2) Name and address of facility.

3) Time and type of incident.

4) Name and quantities of materials.

5) Injuries, if any.

6) Possible hazards associated with the incident.

(g) During an emergency the EC shall take all necessary steps to ensure that additional fires or releases do not occur, recur, or spread. These measures include stopping operations, containing spilled wastes after adequate ventilation is available, etc.

(h) The EC shall provide for the clean up of spills or residues either by in-house personnel or by contract personnel, e.g., I.T. Corporation as listed. Minor spills should be cleaned up according to the Waste Management Plan.

(i) The EC shall provide for that no incompatible wastes are handled in the affected area until the clean up is completed and that all emergency equipment is cleaned and readied for future service before operations resume.

(j) The EC or other management personnel shall notify the Office of Emergency Services and others previously notified that the clean up is completed before resuming operations in the affected areas.

(k) Details of the incident including the time and date shall be entered into the operating record by memo and a written report made within 15 days to the State as per HSC 67145 (J) (1-7). The report shall include the following items:

1) Name, address, and telephone number of Olin Mesa.

2) Date, time and type of incident (e.g. fire, explosion).

3) Names and quantities of material involved.

4) Extent of injuries, if any.

5) An assessment of hazards, where applicable.

6) Quantity and disposition of recovered materials resulting from incident.

City of Mountain View, CA **OFFICIAL RECEIPT**

ORIGINATING DEPARTMENT: ( ) FINANCE (X) FIRE ( ) RECREATION ( ) LIBRARY ( ) POLICE ( ) OTHER

DATE 04/18/88

RECEIVED FROM MESA TECHNOLOGY

T/C	SUBSIDIARY	INDEX	SUB OBJ.	DESCRIPTION (60 CHAR. LIMIT)	AMOUNT
		261057	1411	HAZMAT STORAGE PERMIT FEES 1988	750 —
				1130 Terra Bella	
				TOTAL	750 —

CHECK NO. 11335 6635 531 | CASH | BY P Bell CASHIER | No. 16068

FORM F1-5 (8-85)

CITY OF MOUNTAIN VIEW

FIRE DEPARTMENT
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

HMMP FACILITY DIRECTORY
(see back of sheet for instructions)

Official Use Only

ID

Business Name

(1) Mesa Technology

Business Phone Number

(2) (415) 961-6372

Facility Street Address

(3) 1130 Terra Bella Ave. Mountain View, California, 94043

Mailing Address City State Zip Code

(4) 1130 Terra Bella Ave. Mountain View, California, 94043

Attention

(5) Curt M. Richards

(6) Persons Responsible For:

	Name	Phone Number
APPLICATION	Curt M. Richards	(408) 996-2933
BUSINESS	Curt M. Richards	(408) 996-2933
PROPERTY	Eugene Sharp Estate	(415) 968-8423

(7) Persons Responsible For Responding In An Emergency After Normal Work Hours

Name	Title	Home Phone Number	Work Phone Number
Curt M. Richards	Dir. Of Operations	(408) 996-2933	(415) 961-6372
Phil C. Andet	Project Engr. Mgr.	(408) 378-0742	(415) 961-6372
Bill G. Bridges	Process Engr. Mgr.	(408) 268-5698	(415) 961-6372
Mark Davis	Plant Leader	(415) 967-0358	(415) 961-6372

(8) Business Activity Description

Company Headquarters and Manufacturing Facility

(9) Shift Times:

First: 7:30 to 4:00 Second: 1:00 to 9:30 Third: to

(10) Number of Employees Per Shift:

First: 20 Second: 4 Third:

(11) I declare under penalty of perjury, the foregoing information is true and correct.

Curt M. Richards — Print Name

Curt M Richards — Signature

3/31/88 — Date

HM3.1
Rev. 10/87

White: Applicant 3 Copies: Fire Department

CITY OF MOUNTAIN VIEW

FIRE PREVENTION BUREAU
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

GENERAL FACILITY MAP
Amended 1987
(see back of sheet for instructions)

Official Use Only
10

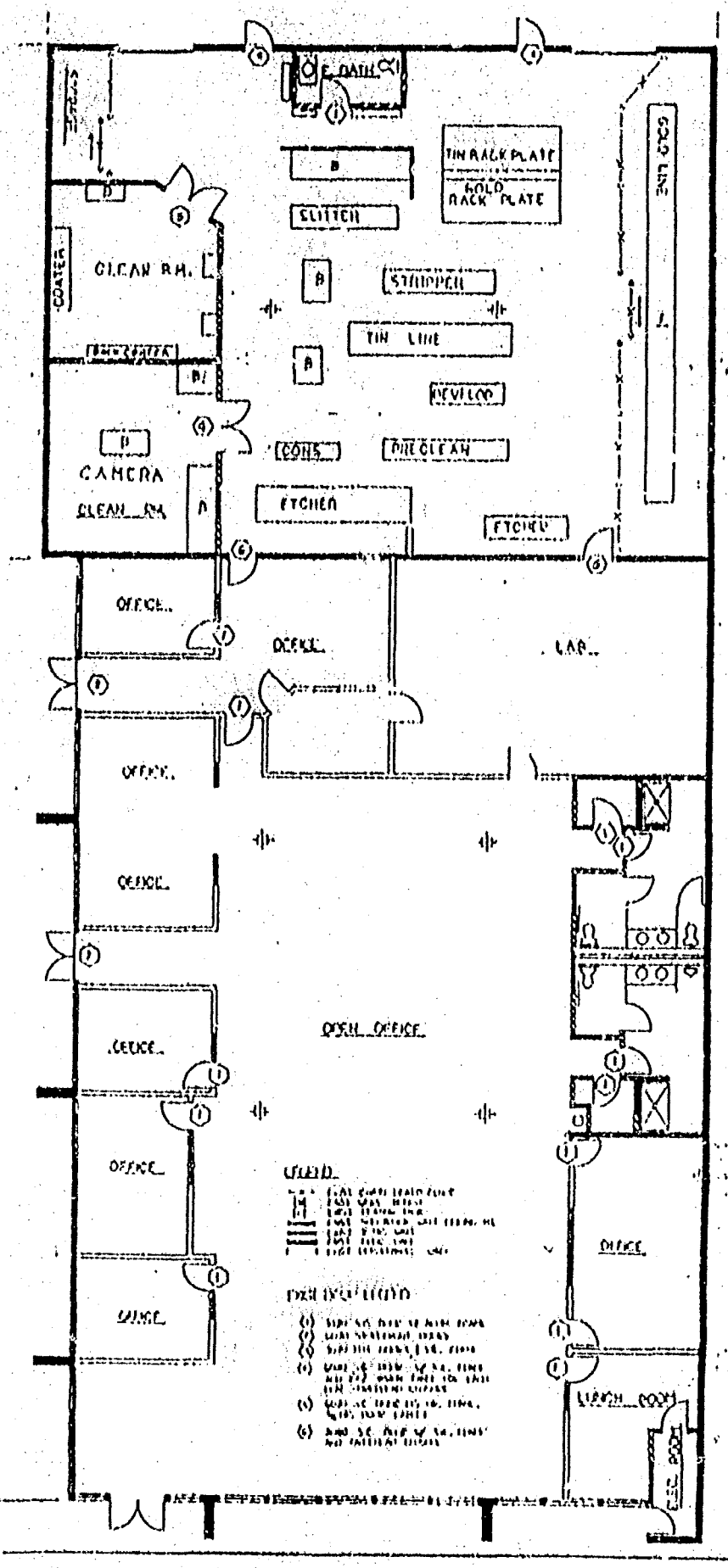
Business Name
MESA Technology

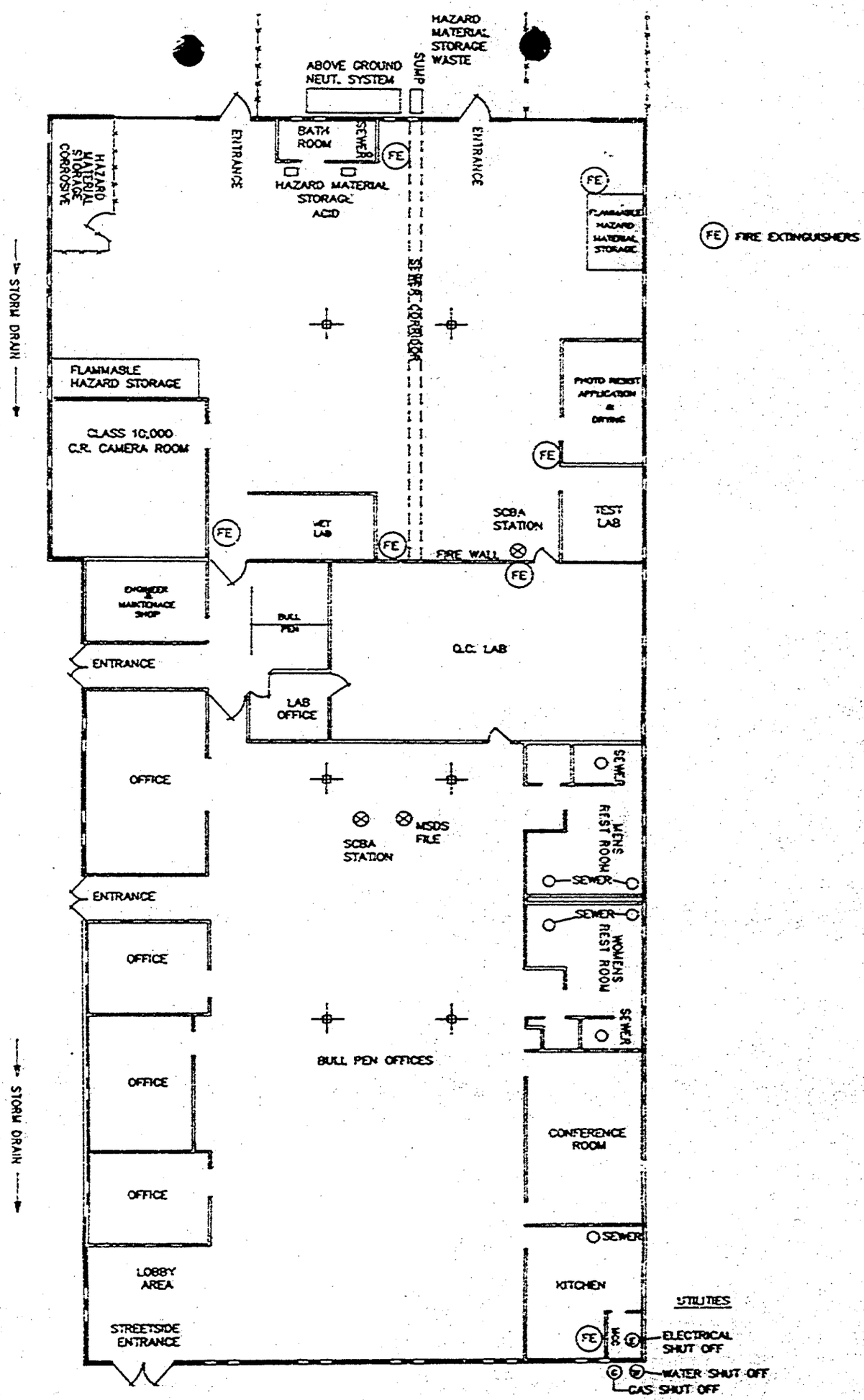
Date
March 28, 1988

Facility Street Number Street Name
1130 Terra Bella Avenue, Mountain View, Ca. 94043

Provide a simple line drawing below following the example and instructions on the back of this form.

See Attached Drawings


TIN RACK PLATE
GOLD RACK PLATE
SLITTER
STRIPPER
TIN LINE
DEVELOP
CLEAN RM.
COATER
CAMERA CLEAN RM.
ETCHER
ETCH'D
OFFICE
OFFICE
LAB.
OFFICE
OFFICE
OFFICE
OFFICE
OFFICE
OFFICE
OFFICE
LUNCH ROOM



TERRA BELLA AVENUE

ONS TO THIS DRAWING MUST DE ON THE ACAD SYSTEM

REV.	DESCRIPTION	DRAWN	DATE	CHKD.	APPR.

Olin
CHEMICALS GROUP
LAKE CHARLES, LA.

PLANT MESA, CALIFORNIA

PROJECT NO.	CAD NO.	SCALE	DRAWING NO.
P904		1/16"-1'-0"	MESA-P904-3

MESA TECH FACILITY
HM3-

CITY OF MOUNTAIN VIEW

FIRE PREVENTION BUREAU
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

STORAGE FACILITY PERMIT QUANTITY LIMIT

Amended 1987
(see back of sheet for instructions)

Official Use Only
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Page (1) 1 of Pages 2

Date (2) 03-23-88

Storage Facility (3) Inside

Business Name (4) MEGA TECHNOLOGY

Facility Street Number / Street Name: 1130 Terra Bella Avenue

DOT CLASS (5)	Chemical Name/Trade Name (6)	Quantity & Physical State: Gas (Cu Ft) (7)	Liquid (Gal) (8)	Solid (Lbs) (9)	Tank (10)	Waste (11)	Waste Annual Throughput (12)
FL	Acetone ✓		30				
Corr-L	Ammonium Hydroxide ✓		30				
Corr-L	Hydrochloric Acid ✓		30				
FL	3- Ethoxyethyl Acetate, 0-Chlorotoluene/Microposit 119 S Photo Resist/Microposit 119 Thinner		30				
Corr-L	Sodium Hydroxide/Microposit 303 A Developer		150				
Corr-L	Glycol Ethers, 2- Butoxyethanol Ethanolamine, Dipropylene Glycol, Methyl Ether/Microposit Remover 1112 A		150				
Corr-L	Phosphoric Acid		30				
FL	2- Propanol,		30				
Corr-L	Nitric Acid		30				
Corr-L	Sulfuric Acid ✓		30				
Corr-L	Thiourea, Sodium Hypophosphite, Stannous Chloride/Tinposit LT-26 ✓		60	[illegible]			
FL	Waste Solvent ✓		60			X	165
Corr-S	Thiourea, Sodium Hypophosphite, Stannous Chloride/Tinposit LT-26			375			

CITY OF MOUNTAIN VIEW

FIRE PREVENTION BUREAU
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

STORAGE FACILITY PERMIT QUANTITY LIMIT

Amended 1987
(see back of sheet for instructions)

Official Use Only
ID

(1) Page 2 of Pages 2

(2) Date 03-23-88

(3) Storage Facility: Outside

(4) Business Name: MEGA TECHNOLOGY

Facility Street Number / Street Name: 1130 Terra Bella Avenue

DOT CLASS (5)	Chemical Name/Trade Name (6)	Quantity & Physical State: Gas (Cu Ft) (7)	Liquid (Gal) (8)	Solid (Lbs) (9)	Tank (10)	Waste (11)	Waste Annual Throughput (12)
OXY-S	Ammonium Persulfate ✓			375			
Corr-L	Ammonium Hydroxide, Ammonium Chloride Ammonium Carbonate/High Spood AC- CU- Guard Replenisher		220				
Corr-L	Ammonium Chloride, Ammonium Hydroxide/High Speed AC- CU- Guard Starter		110				
Corr-L	Sodium Hydroxide		30				
Corr-L	Sulfuric Acid		30				
Corr-L	Waste Corrosive Liquid		275			X	1980
Corr-L	Waste Hydrochloric Acid Mixture		275			X	660
Corr-L	Waste Ammonium Hydroxide Solution		165			X	1980
NFG	NITROGEN.	200					
FG	ACETYLENE.	200.					

CITY OF MOUNTAIN VIEW

FIRE PREVENTION BUREAU
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

FACILITY PERMIT FEE WORKSHEET

Amended 1987
(see back of sheet for instructions)

Official Use Only
ID [ ]

(1) Business Name: AESA TECHNOLOGY

(2) Date: 03-23-88

Facility Street Number(s) / Street Name: 1130 Terra Bella Avenue

DOT CLASS (3)	Aggregate Quantity (Cu Ft)	(Gal)	(Lbs) (4)	Quantity Range and Fees 1	2	3	4	5	6 (Refer To Instructions)	DOT Class Abbrev. (6)
(5)										
Blasting Agent				100	200	300	350	400		BLST
*City Reg. Mats.--Liquid				100	125	150	175	200		CRM-L*
*City Reg. Mats.--Solid				100	125	150	175	200		CRM-S*
Combustible Liquid				100	150	200	250	300		CL
Corrosive Gas				100	200	300	350	400		CORR-G
Corrosive Liquid		1615		100	200	(300)	350	400		CORR-L
Corrosive Solid			375	(100)	200	300	350	400		CORR-S
Etiologic Agent				150	200	200	200	200		ETI
Explosives A				200	300	400	400	400		EXP A
Explosives B				150	200	300	400	400		EXP B
Explosives C				100	150	200	300	400		EXP C
Flammable Gas	200			(100)	200	300	350	400		FG
Flammable Liquid		150		100	(150)	200	250	300		FL
Flammable Solid				100	150	200	250	300		FS
Irritant--Liquid				100	150	200	250	300		IRR-L
Irritant--Solid				100	150	200	250	300		IRR-S
Nonflammable Gas	200			(100)	150	200	250	300		NFG
Organic Peroxide--Liquid				100	200	300	400	500		PEROX-L
Organic Peroxide--Solid				100	200	300	400	500		PEROX-S
Other Reg. Mats.--Liquid				100	150	175	200	250		ORM-L
Other Reg. Mats.--Solid				100	150	175	200	250		ORM-S
Oxidizer--Liquid				100	200	300	350	400		OXY-L
Oxidizer--Solid			175	(100)	200	300	350	400		OXY-S
Poison A--Gas				100	200	300	400	500		POIS-G
Poison A-- or B--Liquid				100	200	300	400	500		POIS-L
Poison A-- or B--Solid				100	200	300	400	500		POIS-S
RADIOACTIVE				125	125	125	125	125		RAD
CRYOGEN				100	200	300	350	400		CRYO

(7) TOTAL FEE DUE: $ 200 + 150 + 300 + ____ + ____ + ____ = $ 850

88 CREDIT <100>

*City Regulated Materials *not* classified by Department of Transportation (DOT)

Make check or money order payable to the City of Mountain View and attach to this worksheet.

750

HM3-4 (Rev. 12/86) White: Applicant 3 Copies: Fire Department

CITY OF MOUNTAIN VIEW
FIRE DEPARTMENT

EMERGENCY RESPONSE PLAN
Section I: Evacuation Procedures

This emergency response plan describes the personnel, procedures, and equipment your facility has available to respond to a release or threatened release of the hazardous materials you store or use. This plan is for the protection of your and your employees. For small facilities, this plan may be sufficient to adequately address all your emergency response concerns. For larger or more complex facilities, supplemental and detailed emergency response information should be maintained on site and be available for review by the Fire Department.

1. *By which method(s) is the Emergency Coordinator (EC) at your facility notified that an emergency (i.e., an actual or threatened hazardous materials release) is taking place? (Check applicable items.)*

[XX] Alarms: Name of Manufacturer American District Telegraph
Last Test Date March 23, 1988 Test Frequency Monthly

[ ] Horns: Last Test Date _____ Test Frequency _____

[ ] Emergency Phone Number: Number _____

[ ] Shouting

[XX] Other Intercom In Manufacturing area

2. *Once the EC has been notified of an emergency situation, what outside agencies does he/she notify? (Check applicable items.)*

[ ] Agency: *FIRE DEPARTMENT* Phone *9 1 1*

[ ] Agency: *State Office of Emergency Services* Phone *1-800-852-7550*

[ ] Agency: _____ Phone _____

[ ] Agency: _____ Phone _____

3. *Indicate the extent of your evacuation pre-planning. (Check applicable items.)*

[XX] Immediate area evacuation routes defined and procedures developed.

[XX] Entire building evacuation procedures developed.

[XX] Assembly areas pre-planned.

[XX] Evacuation maps posted.

[ ] Other: _____

4. *Should personnel be injured during the emergency, your facility must have a nearby clinic/hospital available for treatment:*

Medical Facility Name El Camino Hospital
Medical Facility Address 2500 Grant Rd, Mt. View
Medical Facility Phone Number (24-hour) (415) 940-7055
Approximate Distance to Medical Facility 3 miles

EMERGENCY RESPONSE PLAN
Section II: Spill Control / Mitigation Equipment

INSTRUCTIONS: In the blank form provided describe the safety, spill reponse, and communication equipment you have in place at your facility for use in emergency situations. If practical, report the equipment according to individual job, shop, or work activity area within you facility. If applicable, include the elements listed in legend.

PERSONAL PROTECTIVE AND SAFETY EQUIPMENT

Aprons
Gloves
Coats
Chemical Suits
Boots
Safety Glasses
Faceshield
Hard Hats
Cartridge Respirators
Self Contained Breathing Apparatus (SCBA)
First Aid Kits
Exhaust Hood/Vapor Scrubbers
First Aid Stations
Chemical Antidotes
Eye Wash/Safety Shower

SPILL CONTROL/MONITORING EQUIPMENT

Fire Blankets
Fire Extinguishers (Type A, B, C, and D)
Fire Hoses
Chemical Vapor Monitoring Equipment (Type)
Spill Cart
Chemical Absorbents
Neutralizers
Sand
Leak Repair Kits (Chlorine)
Underground Tank Leak Detection Monitors
Overpak Drums
Plugging/Diking Materials
Pumps

COMMUNICATIONS EQUIPMENT

Pager
Telephones
Intercoms
Portable Radio(s)
Verbal

LOCATION (SHOP OR AREA)	PERSONAL PROTECTIVE & SAFETY EQUIPMENT/AMOUNT	EMERGENCY RESPONSE SPILL EQUIPMENT/AMOUNT	COMMUNICATIONS EQUIPMENT	INSPECTION FREQUENCY	NAME OF INSPECTOR/TITLE
EXAMPLE: Print Shop	*Cartridge Respirators - 4 Shop Coats-4, Gloves-4pr Exhaust Hood-1*	*Fire Extinguishers-1 Sand-50 lbs.*	*Telephone Verbal*	*Monthly*	*John Doe/Lead Technician*
OFFICE		Fire Extinguishers Fire Hose	Telephone Verbal	MONTHLY	Vic Conti/Maintenance Technician
MANUFACTURING	Safety Glasses Face Shields Goggles Aprons	Fire Extinguishers Spill Cart Chemical Absorbents Diking Materials	Intercom Telephones Verbal	"	"
	First Aid Kits Cartridge Respirators			"	"
LABORATORY	First Aid Kits	Fire Extinguishers	Telephones Verbal	"	"

CITY OF MOUNTAIN VIEW
FIRE DEPARTMENT

EMERGENCY RESPONSE PLAN
Section III: Emergency Response Training Program

1. PERSON RESPONSIBLE FOR EMERGENCY RESPONSE TRAINING PROGRAM:

Name Curt M. Richards Title Director Of Operations Phone (415)961-6372

2. TRAINING REQUIREMENTS (Check all applicable items.)

All employees are trained in the following procedures:

- [X] Notification of emergency response coordinator
- [X] Notification of external emergency response organizations (e.g. Fire Department)
- [X] Location and content of emergency response plan
- [X] Evacuation

Chemical handlers are additionally trained in the following:

- [X] Safe methods for handling and storage of hazardous materials
- [X] Proper use of personal protection equipment
- [X] Locations and proper use of fire and spill control equipment
- [X] Specific hazards of each chemical to which they may be exposed, including the pathways of exposure (i.e., skin absorption, inhalation, ingestion)

Emergency response team members are additionally trained in the following procedures:

- [X] Shutdown of operations
- [X] Use, maintenance, and replacement of emergency response equipment

- [X] ALL PERSONNEL RECEIVE APPROPRIATE EMERGENCY RESPONSE TRAINING WITHIN SIX MONTHS OF HIRING
- [X] REFRESHER TRAINING IS PROVIDED AT LEAST ANNUALLY

3. PERSONNEL TRAINING RECORDS

The following training records are maintained for each employee:

- [X] Type and amount of introductory and continuing training
- [X] Date that training was completed
- [ ] Description of facility emergency reponse drills
- [ ] Former employees' training records are retained for at least three years

Your Emergency Response Plan must be on-site and available for review by the Fire Department.

Emergency Response Plan Location Cafeteria

Responsible Person Curt M. Richards

PLEASE ADDRESS THE INDICATED ITEMS

A PERMIT CANNOT BE ISSUED UNTIL THE INDICATED ITEMS ARE RESOLVED

Facility Name: Mesa Foundry 1130 Terra Bella St

Address: R P Riley

Due Date: N/A

FAILURE TO COMPLY BY THE ABOVE DATE COULD RESULT IN CIVIL PENALTIES ($500 PER DAY PER EACH VIOLATION, AND/OR 6 MONTHS IN JAIL.

___ Renew your application to store hazardous materials (HM-3), including appropriate fees. Permits must be renewed annually.

___ Submit your application to store hazardous materials (HM-3). The first year requiring a permit was 1985. If hazardous materials were stored since 1985 and permits were not obtained, additional application forms and appropriate back fees must be submitted. Forms are available at the Fire Department, 1000 Villa Street, (415) 966-6378.

Note: Permit fees were increased in 1987. If hazardous materials were stored prior to this, you must use the 1985/1986 Fee Worksheet to calculate the amount owed for these years.

___ Clarification or an amendment of your application is required. Refer to indicated items and any comments enclosed.

___ Signature & date is required.
___ Facility map is not clear.
___ Quantities stored are not clear and/or incorrect.
___ Waste(s) must be indicated.
___ Annual waste throughput must be noted on the form.
___ _____

___ Material Safety Data Sheets (MSDS's) are required.
___ Type of tank (above or below ground) needs to be clarified.
___ Application is incomplete. Fill out & submit enclosed form(s).
___ _____
___ _____

___ A recent inspection by the Fire Department indicates chemicals stored in quantities greater than what was reported. The attached form, "Storage Facility Permit Quantity Limit" must be revised to reflect this, and additional fees paid if reported quantity ranges increase.

___ Additional backfees are owed in the amount of $_____, for the storage of hazardous materials during the 1985/1985 year.

___ Due to your lateness in filing, deliquent fees (double permit fees) of $_____ are now owed for the _____ year.

___ An error was found on your Facility Permit Fee Worksheet. An additional $_____ is still owed.

✓ An error was found in your favor. You have a credit of $ 100 towards the 1988 year.

___ Copy of license(s) from the State Department of Health Services for storing or handling of radioactive material is required.

___ _____

___ _____

hminsert-2/13/87

MVFD-Hazardous Materials Section

CITY OF MOUNTAIN VIEW

FIRE PREVENTION BUREAU
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

HMMP FACILITY DIRECTORY
(see back of sheet for instructions)

RECEIVED
OCT 28 1987
FIRE DEPT.

Official Use Only
ID

Revised Application for 1987

Business Name
(1) MEGA Technology

Business Phone Number
(2) (415) 961-6372

Facility Street Address
(3) 1130 Terra Bella Avenue

Mailing Address | City | State | Zip Code
(4) 1130 Terra Bella Avenue | Mountain View | CA | 94043

Attention
(5) Curt M. Richards

(6) Persons Responsible For:

	Name	Phone Number
APPLICATION	Scott Vona	(415) 961-3223
BUSINESS	Scott Vona / Curt M. Richards	(415) 296-2933
PROPERTY	Curt M. Richards	(415) 996-2932

(7) Persons Responsible For Responding In An Emergency After Normal Work Hours

Name	Title	Home Phone Number	Work Phone Number
Curt M. Richards	Dir. of Operations	(415) 296-2933	(415) 961-6372
Scott Vona	President	(415) 961-3223	(415) 961-6372
Mark Davis	Maintenance Foreman	(415) 967-6358	(415) 961-6372
Bill Bolduc	Process Engr.	(408) 268-3638	(415) 961-6372

(8) Business Activity (check applicable box)

- ☒ R & D
- ☒ Manufacturing
- ☐ Repair/Maintenance
- ☒ Processing
- ☒ Offices/Clerical
- ☐ Retail
- ☐ Medical
- ☐ Testing
- ☐ Other

(9) I declare under penalty of perjury, the foregoing information is true and correct.

Curt M. Richards — Print Name
Curt M Richards — Signature
10/22/87 — Date

HM3-1
Rev. 7/86

White, Applicant 3 Copies: Fire Department

CITY OF MOUNTAIN VIEW

FIRE PREVENTION BUREAU
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

STORAGE FACILITY PERMIT QUANTITY LIMIT

Amended 1987
(see back of sheet for instructions)

Official Use Only
ID

(1) Page 1 of Pages 1

(2) Date 2-23-87

(3) Storage Facility: Outside

(4) Business Name: MESA Technology

Facility Street Number / Street Name: 1130 Terra Bella Avenue, Mountain View, CA 94043

DOT CLASS (5)	Chemical Name/Trade Name (6)	Quantity & Physical State: Gas (Cu Ft) (7)	Liquid (Gal) (8)	Solid (Lbs) (9)	Tank (10)	Waste (11)	Waste Annual Throughput (12)
Corr-L	Ammonia/Hunt High Speed Ac-Cu-Guard Copper Etchant Replenishor		110				
Corr-L	Ammonia and Copper Chloride/Hunt High Speed Ac-Cu-Guard Copper Etchant Starter		110				
Corr-L	Ammonia and Copper Chloride		110			X	660 gal.
Corr-L	Sulfuric Acid (Tech Grade)		110				
Corr-L	Sodium Hydroxide		99				
Corr-L	Assorted Corrosive Liquids (Waste)		250			X	1320 gal.

HM3-3 (Rev. 12/86) White: Applicant 3 Copies Fire Department

CITY OF MOUNTAIN VIEW

FIRE PREVENTION BUREAU
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

STORAGE FACILITY PERMIT QUANTITY LIMIT

Amended 1987
(see back of sheet for instructions)

Official Use Only
ID

Page (1) 1 of Pages 1

Date (2) 3-23-87

Business Name (4) MESA Technology

Storage Facility (3) Inside

Facility Street Number / Street Name: 1130 Terra Bella Avenue, Mountain View, CA 94043

DOT CLASS (5)	Chemical Name/Trade Name (6)	Quantity & Physical State: Gas (Cu Ft) (7)	Liquid (Gal) (8)	Solid (Lbs) (9)	Tank (10)	Waste (11)	Waste Annual Transport (12)
Corr-L	Glycol Ether and Ethanolamine/Shipley 111A		150				
Corr-L	Tin, Thiourea, Proprietary Blend of Corrosive Acids/Shipley Immersion Tin LT-26		300	50			
Corr-L	Sulfuric Acid (Reagent)		10				
Corr-L	Assorted Corrosive Liquids		100				
Corr-L	Assorted Combustible Liquids		100				
OXY-S	Assorted Oxidizer - Solids		200	500			
FL	Acetone		100				
FL	Assorted Flammable Liquids		100				
ORM-L	Assorted Other Regulated Material - Liquids		20				
Corr-L	Hydrochloric Acid		6				
Corr-L	Nitric Acid		8				
Corr-L	Ammonium Hydroxide		10				
ORM-B	Cyanide			4			
FL	Waste Solvent					X	110 gal.

HM3-3 (Rev. 12/86) White: Applicant 3 Copies Fire Department

BUSINESS PLAN FOR EMERGENCY RESPONSE
Section I: General Information

1) Company Name: MESA Technology

2) Site Address: 1130 Terra Bella Avenue, Mountain View, CA 94043

3) Business Telephone (415) 961-6372

4) Utility Phones: Gas PG&E (408) 973-8980 Electric PG&E (408) 973-8980

Water Mountain View (415) 329-2413 Telephone Co Pacific Bell Repairs - Dial 611

5) Principal Business Activity Manufacture of Electronic Interconnect Circuitry & Metal Finishing

6) Hours of Operation 10

7) Number of Shifts 1 Shift Times: First 7 a.m. to 5 p.m.

Second ____ to ____ Third ____ to ____

8) Total Number of Employees 38

9) Number of Employees/Shift: First 38 Second ____ Third ____

FIRST SHIFT

10) Name of Emergency Coordinator (EC): Curt M. Richards

(An Emergency Coordinator is the ON-SITE person who has complete authority to manage an emergency. His/her duties may include completing the emergency plan, updating it, and training employees in its use. You must appoint an emergency coordinator for your facility as required by California State Law.)

11) EC Home Address: 20193 Marilla Ct., Saratoga, CA 95070

12) EC Phone Number During Business Hours (415) 961-6372 Ext. 18

13) EC Phone Number After Business Hours (408) 996-2933

14) Methods To Reach EC During An Emergency: (check one)

a) During Business Hours: Phone [X] Answering Service [ ] Pager [ ] Other [ ] ____

b) After Business Hours: Phone [X] Answering Service [ ] Pager [ ] Other [ ] ____

15) Alternative Emergency Coordinator (AEC): Scott Voss

16) AEC Phone Number During Business Hours (415) 961-6372 Ext. 17

17) AEC Phone Number After Business Hours (415) 851-3228

18) Methods To Reach AEC During An Emergency: (check one)

a) During Business Hours: Phone [X] Answering Service [ ] Pager [ ] Other [ ] ____

b) After Business Hours: Phone [X] Answering Service [ ] Pager [ ] Other [ ] ____

BUSINESS PLAN FOR EMERGENCY RESPONSE
Section I: General Information, continued

SECOND SHIFT

19) Name of Emergency Coordinator: _____

20) EC Home Address: _____

21) EC Phone During Business Hours: _____

22) EC Phone Number After Business Hours: _____

23) Methods To Reach EC During An Emergency: (check one)

a) During Business Hours: Phone [ ] Answering Service [ ] Pager [ ] Other [ ] _____

b) After Business Hours: Phone [ ] Answering Service [ ] Pager [ ] Other [ ] _____

24) Alternative Emergency Coordinator (AEC) _____

25) AEC Phone Number During Business Hours: _____

26) AEC Phone Number After Business Hours: _____

27) Methods To Reach AEC During An Emergency: (check one)

a) During Business Hours: Phone [ ] Answering Service [ ] Pager [ ] Other [ ] _____

b) After Business Hours: Phone [ ] Answering Service [ ] Pager [ ] Other [ ] _____

THIRD SHIFT

28) Name of Emergency Coordinator: _____

29) EC Home Address: _____

30) EC Phone Number During Business Hours: _____

31) EC Phone Number After Business Hours _____

32) Methods To Reach EC During An Emergency: (check one)

a) During Business Hours: Phone [ ] Answering Service [ ] Pager [ ] Other [ ] _____

b) After Business Hours: Phone [ ] Answering Service [ ] Pager [ ] Other [ ] _____

33) Alternative Emergency Coordinator (AEC) _____

34) AEC Phone Number During Business Hours _____

35) AEC Phone Number After Business Hours _____

36) Methods To Reach AEC During An Emergency. (check one)

a) During Business Hours: Phone [ ] Answering Service [ ] Pager [ ] Other [ ] _____

b) After Business Hours: Phone [ ] Answering Service [ ] Pager [ ] Other [ ] _____

BUSINESS PLAN FOR EMERGENCY RESPONSE
Section II: Evacuation Procedures

1) By which method(s) is the Emergency Coordinator at your facility notified that an emergency (i.e., an actual or threatened hazardous materials release) is taking place? (check applicable items).

☒ Alarms: Name of Manufacturer: American District Telegraph
Last Test Date: 2-25-87 Test Frequency: Monthly

☐ Horns: Last Test Date: _____ Test Frequency: _____

☒ Emergency Phone Number: Phone Number 800-231-0256

☐ Shouting ☒ Other Intercom in Manufacturing Area

2) Once the EC has been notified of an emergency situation, what outside agencies does he/she notify?

Agency: *Fire Department* Phone: *911*
Agency: *State Office of Emergency Services* Phone *1-800-852-7550*
Agency: _____ Phone: _____
Agency: _____ Phone _____

These phone numbers should be posted throughout the facility to allow any employee to report the emergency, should the emergency coordinator or his alternate not be available.

3) If the facility must be evacuated, all personnel should know where the nearest emergency exit is located, and should be aware of all evacuation routes. This can best be accomplished by POSTING EVACUATION MAPS throughout the facility showing the location of emergency exits and evacuation routes, and by PRACTICING EVACUATION DRILLS on a routine basis.

4) During the actual evacuation, each facility should have specific individuals assigned to specific tasks:

List the person(s) responsible to do the following tasks. Include the person's name title, and shift number. (Use additional sheets if required).

Inspect Bathrooms: Toni Koenen/Vic Conti
Inspect Breakroom: _____
Shut Off Gas Supply: Vic Conti
Shut Off Water Supply: Vic Conti
Shut Off Electricity (circuit breakers): Mark Davis
Provide CPR: _____
Provide Emergency First Aid: _____
Verify That All Personnel Have Been Evacuated (headcount): Curt M. Richards

5) Should personnel be injured during the emergency, your facility must have a nearby clinic/hospital available for treatment:

Medical Facility Name: El Camino Hospital
Medical Facility Address: 2500 Grant Road, Mountain View
Medical Facility Phone Number (24-hour): (415) 940-7055
Approximate Distance To Medical Facility: 3 miles

BUSINESS PLAN FOR EMERGENCY RESPONSE
Section III: Spill Control/Mitigation Procedures

1) If the chemical spill/release is considered too large for your facility to handle or if your facility is not equipped with the appropriate clean-up equipment, you should have available a phone number of a hazardous materials clean-up contractor to call. This number will also be used by the fire department during an emergency involving hazardous materials clean-up.

Contractor Name: Ocean

Contractor Address: Lower River Road, Charleston, TN 37312

Contractor Phone (24-hour): 1-800-OLIN-911

Contractor EPA ID Number: _____

2) If your facility has the ability to mitigate the spill/release, a list of personnel responsible for the use of all specialized protective clothing, chemical spill control and clean-up equipment must be established and maintained.

Name	Title	Specific Responsibilities

3) In addition to personnel, the protective equipment and spill control equipment must be maintained, tested, and inspected on a regular basis.

PLEASE COMPLETE ATTACHMENT 1: "EMERGENCY EQUIPMENT"

4) Are all Emergency Response Procedures posted on site? ☒ Yes ☐ No

If yes, list locations:

On file at Safety Manager's Office

Lunchroom

_____

_____

BUSINESS PLAN FOR EMERGENCY RESPONSE
Section IV: Employee Training Records

1. Are all personnel trained and drilled in proper evacuation procedures, and do they understand what additional responsibilities, if any, they may have during an evacuation? YES[X] or NO[ ]

2. Are all personnel familiar with proper means of notifying their manager/ emergency coordinator in the event of an emergency? YES[X] or NO[ ]

3. Are all personnel trained in the safe handling of hazardous materials which they use or may be exposed to in their job? YES[X] or NO[ ]

4. Are new personnel trained in proper notification, evacuation, and hazardous materials handling procedures within 6 months of their date of hire? YES[X] or NO[ ]

5. Are refresher courses in: emergency response (for emergency response personnel only), evacuation, notification, and hazardous materials handling procedures given at least annually? YES[X] or NO[ ]

6. Do in-house emergency response personnel receive specialized hazardous material incident response training as part of their overall job training? YES[ ] or NO[X]

7. Are copies of all Material Safety Data Sheets (MSDS's) included with this packet? YES[X] or NO[ ]

I hereby certify that our plan is in conformance with the requirements of the California Health and Safety Code, Chapter 6.95, as it relates to The Emergency Response Plan subsection of the Business Plan, and understand that I will be required to show proof of compliance (including training documentation) during any facility inspection conducted by local, county, or state authorities.

Curt M. Richards, Director of Operations
Name/Title (please print)

Curt M. Richards
Signature

10/27/87
Date

Attachment 1

EMERGENCY EQUIPMENT

INSTRUCTIONS: In the blank form provided describe the safety, spill response, and communication equipment you have in place at your facility for use in emergency situations. If practical, report the equipment according to individual job, shop or work activity area within your facility. If applicable, include the elements listed in legend.

Personal Protective & Safety Equipment

- Aprons
- Gloves
- Coats
- Chemical Suits
- Boots
- Safety Glasses
- Faceshield
- Hard Hats
- Cartridge Respirators
- Self Contained Breathing Apparatus (SCBA)
- First Aid Kits
- Exhaust Hoods/Vapor Scrubbers
- First Aid Stations
- Chemical Antidotes
- Eye Wash/Safety Shower

Spill Control/Monitoring Equipment

- Fire Blankets
- Fire Extinguishers (Type (A, B, C) & D)
- Fire Hoses
- Chemical Vapor Monitoring Equipment (Type)
- Spill Cart
- Chemical Absorbants
- Neutralizers
- Sand
- Leak Repair Kits (Chlorine)
- Underground Tank Leak Detection Monitors one
- Overpak Drums
- Plugging/Diking Materials
- Pumps

Communications Equipment

- Paper X
- Telephones X
- Intercoms
- Portable Radio(s)
- Verbal X

LOCATION (SHOP OR AREA)	PERSONNEL PROTECTIVE & SAFETY EQUIPMENT/AMOUNT	EMERGENCY RESPONSE SPILL EQUIPMENT/AMOUNT	COMMUNICATIONS EQUIPMENT	INSPECTION FREQUENCY	NAME OF INSPECTOR/ TITLE
EXAMPLE: PAINT SHOP	CARTRIDGE RESPIRATORS - 4 SHOP COATS-4, GLOVES-4pr EXHAUST HOOD - 1	FIRE EXTINGUISHERS - 1 SAND - 50 lbs	TELEPHONE VERBAL	MONTHLY	John Doe/Lead Technician
Office	Safety Glasses-150 pr. Cartridge Respirators-2 ea. Chem. Antidotes- 1 ea	Fire Extinguishers - 2 each ABC Fire Hose - 1 each	Telephones Verbal	See attachment 2	Vic Conti-Maintenance
Manufacturing	Cartridge Respirators-2 each SCBA - 2 each Aprons - 2 each Face Shields - 4 each Gloves - 200 ea. Showers - 2 each Coats-50 ea/Boots-2 pr	Fire Extinguishers - 5 each ABC Chem. Absorbants-30# Chem. Pillows - 10 each Pumps - 4 each	Intercom Telephones - 2 each Verbal	See attachment 2	"
Lab	First Aid Kits - 2 each	Fire Extinguishers - 1 each ABC	Telephones - 2 each Verbal	See attachment 2	"
Outside Storage Area	POTW Sump - Leak Detector		Verbal	See attachment 2	"

City of Mountain View, CA **OFFICIAL RECEIPT**

ORIGINATING DEPARTMENT ▶ ☐ FINANCE ☐ RECREATION ☐ POLICE ☒ FIRE ☐ LIBRARY ☐ OTHER

RECEIVED FROM Moon Jacon & Cooper DATE 04/06/87

T/C	SUBSIDIARY	INDEX	SUB OBJ.	DESCRIPTION (50 CHAR. LIMIT)	AMOUNT
		261057	4411	Hazmat Storage Permit fees	100 00
				for 1987 Renewal	
				1130 Vasa Bella	
				TOTAL	100 00

CHECK NO. 66-35 9973 531 CASH

BY [signature] CASHIER

No. 16546

FORM F1-5 (8-85)

CITY OF MOUNTAIN VIEW

FIRE PREVENTION BUREAU
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

HMMP FACILITY DIRECTORY
(see back of sheet for instructions)

HH

Official Use Only
ID 69110000

Business Name
(1) Mesa Technology

Business Phone Number
(2) (415) 961-6372

Facility Street Address
(3) 1130 Terra Bella Avenue

Mailing Address | City | State | Zip Code
(4) 1130 Terra Bella Avenue | Mountain View, | CA | 94043

Attention
(5) Raymond Riley

(6) Persons Responsible For:

	Name	Phone Number
APPLICATION	Raymond Riley	(415) 961-6372
BUSINESS	Scott Voss	(415) 961-6372
PROPERTY	Eugene Sharp	(415) 968-9423

(7) Persons Responsible For Responding In An Emergency After Normal Work Hours

Name	Title	Home Phone Number	Work Phone Number
Raymond Riley	Facilities & Safety Manager	(408) 336-8173	(415) 961-6372
Bob Walker	Director of Operations	(408) 257-0117	(415) 961-6372
Scott Voss	President	(415) 851-3228	(415) 961-6372
Vic Conti	Maintenance	(415) 966-1271	(415) 961-6372

(8) Business Activity (check applicable box)

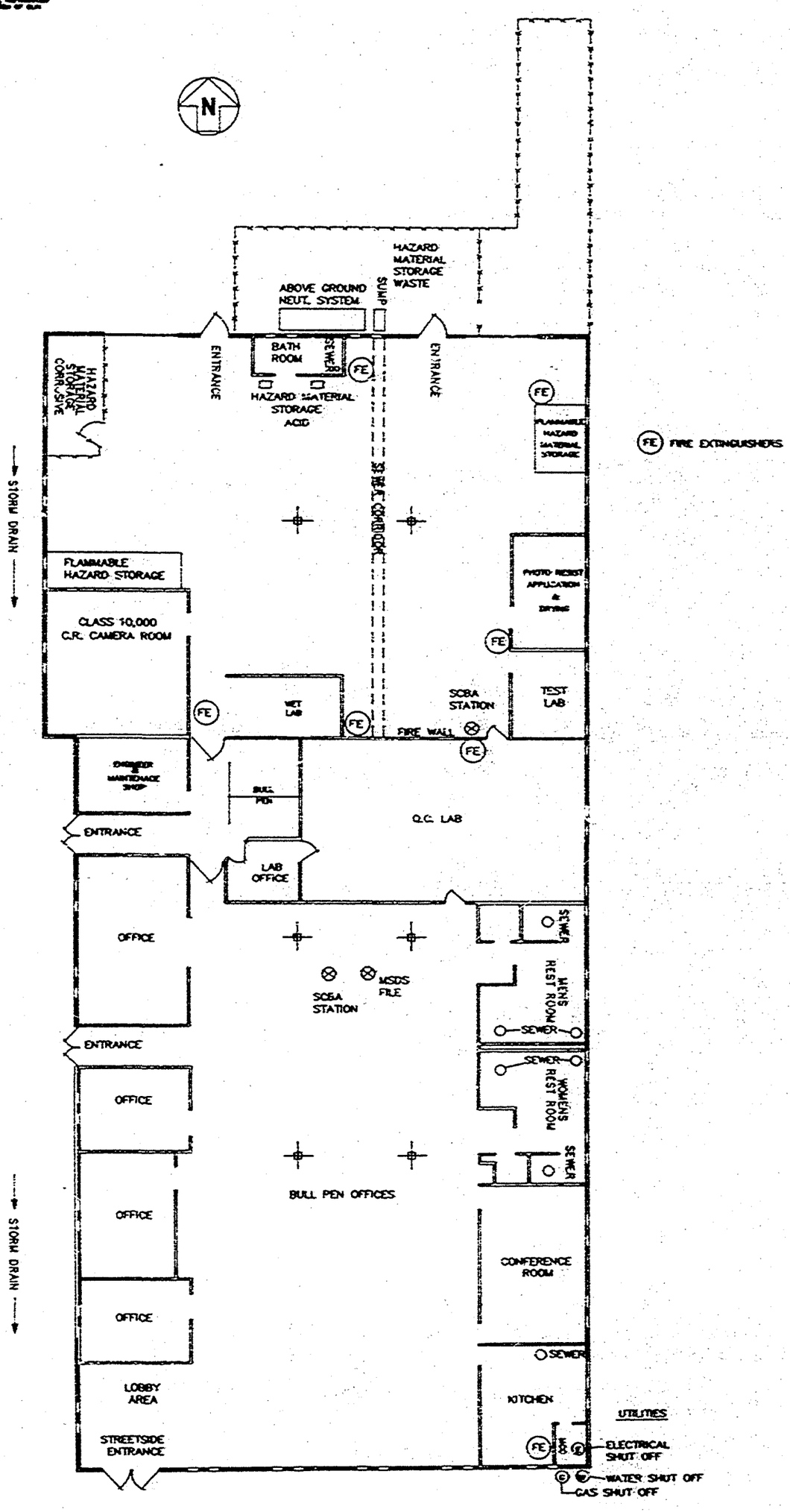
- [X] R & D
- [X] Manufacturing
- [ ] Repair/Maintenance
- [ ] Processing
- [X] Offices/Clerical
- [ ] Retail
- [ ] Medical
- [ ] Testing
- [ ] Other

(9) I declare under penalty of perjury, the foregoing information is true and correct.

Scott Voss | | |
Print Name | Signature | Date

HM3-1
Rev. 7/86

White: Applicant 3 Copies Fire Department



TERRA BELLA AVENUE

REVISIONS TO THIS DRAWING MUST BE MADE ON THE ACAD SYSTEM

REV.	DESCRIPTION	DRAWN	PROJ.	CHKD.	APPR.

Olin
CHEMICALS GROUP
LAKE CHARLES, LA

PLANT MESA, CALIFORNIA

PROJECT NO.	CAL. NO.	SCALE
P904		1/16"=1'-0"

MESA TECHNOLOGY FACILITY PLAN HM3-2

DRAWING NO. MESA-P904-3003-B

REV. 0

CITY OF MOUNTAIN VIEW

FIRE PREVENTION BUREAU
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

STORAGE FACILITY PERMIT QUANTITY LIMIT

Amended 1987
(See back of sheet for instructions)

Official Use Only

ID

Page (1) 1 of Pages 1

Date (2) 2-23-87

Storage Facility (3) Outside

Business Name (4) Mesa Technology

Facility Street Number / Street Name: 1130 Terra Bella Avenue, Mountain View, CA 94043

DOT CLASS (5)	Chemical Name/Trade Name (6)	Quantity & Physical State: Gas (Cu Ft) (7)	Liquid (Gal) (8)	Solid (Lbs) (9)	Tank (10)	Waste (11)	Waste Annual Throughput (12)
Corr-L	Ammonia/Hunt High Speed Ac-Cu-Guard Copper Etchant Replenisher		110				
Corr-L	Ammonia and Copper Chloride/Hunt High Speed Ac-Cu-Guard Copper Etchant Starter		110				
Corr-L	Ammonia and Copper Chloride		110			X	660 gal.
Corr-L	Sulfuric Acid (Tech Grade)		110				
Corr-L	Sodium Hydroxide		90				
Corr-L	Assorted Corrosive Liquids (Waste)		250			X	1320 gal.

CITY OF MOUNTAIN VIEW

FIRE PREVENTION BUREAU
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

STORAGE FACILITY PERMIT QUANTITY LIMIT

Amended 1987
(see back of sheet for instructions)

Official Use Only
ID

(1) Page 1 of Pages 1

(2) Date: 3-23-87

(3) Storage Facility: Inside

(4) Business Name: Mesa Technology

Facility Street Number / Street Name: 1130 Terra Bella Avenue, Mountain View, CA 94043

DOT CLASS (5)	Chemical Name/Trade Name (6)	Quantity & Physical State: Gas (Cu Ft) (7)	Liquid (Gal) (8)	Solid (Lbs) (9)	Tank (10)	Waste (11)	Waste Annual Throughput (12)
Corr-L	Glycol Ether and Ethanolamine/Shipley 1112A Remover		90				
Corr-L	Tin, Thiourea, Proprietary Blend of Corrosive Acids/Shipley Immersion Tin LT-26		60				
Corr-L	Sulfuric Acid (Reagent)		10				
Corr-L	Assorted Corrosive Liquids		100				
Cl.	Assorted Combustible Liquids		100				
OXY-S	Assorted Oxidizer - Solids			700			
FL	Acetone		100				
FL	Assorted Flammable Liquids		100				
ORM-L	Assorted Other Regulated Material - Liquids		20				
Corr-L	Hydrochloric Acid		6				
Corr-L	Nitric Acid		8				
Corr-L	Ammonium Hydroxide		10				
ORM-B	Cyanide			4			
FL	Waste Solvent					X	110 gal.

CITY OF MOUNTAIN VIEW

FIRE PREVENTION BUREAU
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

FACILITY PERMIT FEE WORKSHEET

Amended 1987
(see back of sheet for instructions)

Official Use Only

ID | | | | | |

Business Name

(1) Mesa Technology

Date

(2) 3-17-87

Facility Street Number(s) Street Name

1130 Terra Bella Avenue, Mountain View, CA 94043

DOT CLASS (3)	Aggregate Quantity (Cu Ft)	(Gal) (4)	(Lbs)	Quantity Range and Fees 1	2	3	4	5	6 (Refer to Instructions)	DOT Class Abbrev. (6)
Blasting Agent				100	200	300	350	400		BLST
*City Reg. Mats.--Liquid				100	125	150	175	200		CRM-L*
*City Reg. Mats.--Solid				100	125	150	175	200		CRM-S*
Combustible Liquid		100		100	(150)	200	250	300		CL
Corrosive Gas				100	200	300	350	400		CORR-G
Corrosive Liquid		1064		100	200	(300)	350	400		CORR-L
Corrosive Solid				100	200	300	350	400		CORR-S
Etiologic Agent				150	200	200	200	200		ETI
Explosives A				200	300	400	400	400		EXP A
Explosives B				150	200	300	400	400		EXP B
Explosives C				100	150	200	300	400		EXP C
Flammable Gas				100	200	300	350	400		FG
Flammable Liquid		255		100	(150)	200	250	300		FL
Flammable Solid				100	150	200	250	300		FS
Irritant--Liquid				100	150	200	250	300		IRR-L
Irritant--Solid				100	150	200	250	300		IRR-S
Nonflammable Gas				100	150	200	250	300		NFG
Organic Peroxide--Liquid				100	200	300	400	500		PEROX-L
Organic Peroxide--Solid				100	200	300	400	500		PEROX-S
Other Reg. Mats.--Liquid		20		(100)	150	175	200	250		ORM-L
Other Reg. Mats.--Solid		Exempt	4	(100)	150	175	200	250		ORM-S
Oxidizer--Liquid				100	200	300	350	400		OXY-L
Oxidizer--Solid			700	100	(200)	300	350	400		OXY-S
Poison A--Gas				100	200	300	400	500		POIS-G
Poison A-- or B--Liquid				100	200	300	400	500		POIS-L
Poison A-- or B--Solid				100	200	300	400	500		POIS-S
RADIOACTIVE				125	125	125	125	125		RAD
CRYOGEN				100	200	300	350	400		CRYO

(7) TOTAL FEE DUE: $ 200/100 + 500 + 300 + ____ + ____ + ____ = $ 1000

*City Regulated Materials *not* classified by Department of Transportation (DOT)

Make check or money order payable to the City of Mountain View and attach to this worksheet.

HM3-4 (Rev. 12/86) White: Applicant 3 Copies: Fire Department

BUSINESS PLAN FOR EMERGENCY RESPONSE
Section I: General Information

1) Company Name Mesa Technology

2) Site Address 1130 Terra Bella Avenue, Mountain View, CA 94043

3) Business Telephone (415) 961-6372

4) Utility Phones: Gas PG&E (408) 973-8980 Electric PG&E (408) 973-8930

Water Mountain View (415) 329-2413 Telephone Co. Pacific Bell Repairs-Dial 611

5) Principal Business Activity Manufacture of Electronic Interconnect Circuitry & Metal Finishing

6) Hours of Operation 10 hours

7) Number of Shifts 1 Shift Times: First 7 a.m. to 5 p.m.

Second ____ to ____ Third ____ to ____

8) Total Number of Employees 38

9) Number of Employees/Shift: First 38 Second ____ Third ____

FIRST SHIFT

10) Name of Emergency Coordinator (EC) Raymond P. Riley

(An Emergency Coordinator is the ON-SITE person who has complete authority to manage an emergency. His/her duties may include completing the emergency plan, updating it, and training employees in its use. You must appoint an emergency coordinator for your facility as required by California State Law.)

11) EC Home Address 9780 Highway 9, BenLomond, CA 95005

12) EC Phone Number During Business Hours (415) 961-6372 Extension 37

13) EC Phone Number After Business Hours (408) 336-8173

14) Methods To Reach EC During An Emergency (check one)

a) During Business Hours Phone [X] Answering Service [ ] Pager [ ] Other [ ] ____

b) After Business Hours Phone [X] Answering Service [ ] Pager [ ] Other [ ] ____

15) Alternative Emergency Coordinator (AEC) Bob Walker

16) AEC Phone Number During Business Hours (415) 961-6372 Extension 18

17) AEC Phone Number After Business Hours (408) 257-0117

18) Methods To Reach AEC During An Emergency (check one)

a) During Business Hours Phone [X] Answering Service [ ] Pager [ ] Other [ ] ____

b) After Business Hours Phone [X] Answering Service [ ] Pager [ ] Other [ ] ____

BUSINESS PLAN FOR EMERGENCY RESPONSE
Section I: General Information, continued

SECOND SHIFT

19) Name of Emergency Coordinator _____

20) EC Home Address _____

21) EC Phone During Business Hours _____

22) EC Phone Number After Business Hours _____

23) Methods To Reach EC During An Emergency (check one)

a) During Business Hours Phone ☐ Answering Service ☐ Pager ☐ Other ☐ _____

b) After Business Hours Phone ☐ Answering Service ☐ Pager ☐ Other ☐ _____

24) Alternative Emergency Coordinator (AEC) _____

25) AEC Phone Number During Business Hours _____

26) AEC Phone Number After Business Hours _____

27) Methods To Reach AEC During An Emergency (check one)

a) During Business Hours Phone ☐ Answering Service ☐ Pager ☐ Other ☐ _____

b) After Business Hours Phone ☐ Answering Service ☐ Pager ☐ Other ☐ _____

THIRD SHIFT

28) Name of Emergency Coordinator _____

29) EC Home Address _____

30) EC Phone Number During Business Hours _____

31) EC Phone Number After Business Hours _____

32) Methods To Reach EC During An Emergency (check one)

a) During Business Hours Phone ☐ Answering Service ☐ Pager ☐ Other ☐ _____

b) After Business Hours Phone ☐ Answering Service ☐ Pager ☐ Other ☐ _____

33) Alternative Emergency Coordinator (AEC) _____

34) AEC Phone Number During Business Hours _____

35) AEC Phone Number After Business Hours _____

36) Methods To Reach AEC During An Emergency (check one)

a) During Business Hours Phone ☐ Answering Service ☐ Pager ☐ Other ☐ _____

b) After Business Hours Phone ☐ Answering Service ☐ Pager ☐ Other ☐ _____

BUSINESS PLAN FOR EMERGENCY RESPONSE
Section II: Evacuation Procedures

1) By which method(s) is the Emergency Coordinator at your facility notified that an emergency (i.e. an actual or threatened hazardous materials release) is taking place? (check applicable items)

[X] Alarms: Name of Manufacturer American District Telegraph
Last Test Date 2-25-87 Test Frequency Monthly

[ ] Horns Last Test Date: Test Frequency:

[X] Emergency Phone Number Phone Number 800-231-0256

[ ] Shouting [X] Other Intercom in Manufacturing Area

2) Once the EC has been notified of an emergency situation what outside agencies does he/she notify?

Agency *Fire Department* Phone 911
Agency *State Office of Emergency Services* Phone 1-800-852-7550
Agency Phone
Agency Phone

These phone numbers should be posted throughout the facility to allow any employee to report the emergency, should the emergency coordinator or his alternate not be available.

3) If the facility must be evacuated, all personnel should know where the nearest emergency exit is located, and should be aware of all evacuation routes. This can best be accomplished by POSTING EVACUATION MAPS throughout the facility showing the location of emergency exits and evacuation routes, and by PRACTICING EVACUATION DRILLS on a routine basis.

4) During the actual evacuation, each facility should have specific individuals assigned to specific tasks.

List the person(s) responsible to do the following tasks. Include the person's name title, and shift number. (Use additional sheets if required).

Inspect Bathrooms Cathi Kelsey/Vic Conti
Inspect Breakroom Cathi Kelsey
Shut Off Gas Supply Vic Conti
Shut Off Water Supply Vic Conti
Shut Off Electricity (circuit breakers): Ray Riley
Provide CPR Ray Riley/Lisa Walter
Provide Emergency First Aid Ray Riley/Lisa Walter
Verify That All Personnel Have Been Evacuated (headcount): Bob Walker

5) Should personnel be injured during the emergency, your facility must have a nearby clinic, hospital available for treatment.

Medical Facility Name El Camino Hospital
Medical Facility Address 2500 Grant Road, Mountain View
Medical Facility Phone Number (24-hour): (415) 940-7055
Approximate Distance To Medical Facility 3 miles

BUSINESS PLAN FOR EMERGENCY RESPONSE
Section III: Spill Control/Mitigation Procedures

1) If the chemical spill/release is considered too large for your facility to handle or if your facility is not equipped with the appropriate clean-up equipment, you should have available a phone number of a hazardous materials clean-up contractor to call. This number will also be used by the fire department during an emergency involving hazardous materials clean-up.

Contractor Name: I. T. Corporation

Contractor Address: 3010 Zankar Road, San Jose, CA

Contractor Phone (24-hour): (415) 372-9100

Contractor EPA ID Number: CAD 980885925

2) If your facility has the ability to mitigate the spill/release, a list of personnel responsible for the use of all specialized protective clothing, chemical spill control and clean-up equipment must be established and maintained.

Name	Title	Specific Responsibilities

3) In addition to personnel, the protective equipment and spill control equipment must be maintained, tested, and inspected on a regular basis.

PLEASE COMPLETE ATTACHMENT 1: EMERGENCY EQUIPMENT

4) Are all Emergency Response Procedures posted on site? [X] Yes [ ] No

If yes, list locations

On file at Safety Manager's Office

Lunchroom

BUSINESS PLAN FOR EMERGENCY RESPONSE
Section IV: Employee Training Records

1. Are all personnel trained and drilled in proper evacuation procedures, and do they understand what additional responsibilities, if any, they may have during an evacuation? YES[X] or NO[ ]

2. Are all personnel familiar with proper means of notifying their manager/ emergency coordinator in the event of an emergency? YES[X] or NO[ ]

3. Are all personnel trained in the safe handling of hazardous materials which they use or may be exposed to in their job? YES[X] or NO[ ]

4. Are new personnel trained in proper notification, evacuation, and hazardous materials handling procedures within 6 months of their date of hire? YES[X] or NO[ ]

5. Are refresher courses in: emergency response (for emergency response personnel only), evacuation, notification, and hazardous materials handling procedures given at least annually? YES[X] or NO[ ]

6. Do in-house emergency response personnel receive specialized hazardous material incident response training as part of their overall job training? YES[ ] or NO[X]

7. Are copies of all Material Safety Data Sheets (MSDS's) included with this packet? YES[X] or NO[ ]

I hereby certify that our plan is in conformance with the requirements of the California Health and Safety Code, Chapter 6.95, as it relates to The Emergency Response Plan subsection of the Business Plan, and understand that I will be required to show proof of compliance (including training documentation) during any facility inspection conducted by local, county, or state authorities.

Scott Voss
Name/Title (please print)

Scott Voss
Signature

4/6/87
Date

Attachment 1

EMERGENCY EQUIPMENT

INSTRUCTIONS: In the blank form provided describe the safety, spill response, and communication equipment you have in place at your facility for use in emergency situations. If practical, report the equipment according to individual job, shop or work activity area within your facility. If applicable, include the elements listed in legend.

Personal Protective & Safety Equipment

- Aprons
- Gloves
- Coats
- Chemical Suits
- Boots
- Safety Glasses
- Faceshield
- Hard Hats
- Cartridge Respirators
- Self Contained Breathing Apparatus (SCBA)
- First Aid Kits
- Exhaust Hoods/Vapor Scrubbers
- First Aid Stations
- Chemical Antidotes
- Eye Wash/Safety Shower

Spill Control/Monitoring Equipment

- Fire Blankets
- Fire Extinguishers (Type (A, B, C) & D)
- Fire Hoses
- Chemical Vapor Monitoring Equipment (Type)
- Spill Cart
- Chemical Absorbants
- Neutralizers
- Sand
- Leak Repair Kits (Chlorine)
- Underground Tank Leak Detection Monitors one
- Overpak Drums
- Plugging/DIKing Materials
- Pumps

Communications Equipment

- Pager X
- Telephones X
- Intercoms
- Portable Radio(s)
- Verbal X

LOCATION (SHOP OR AREA)	PERSONNEL PROTECTIVE & SAFETY EQUIPMENT/AMOUNT	EMERGENCY RESPONSE SPILL EQUIPMENT/AMOUNT	COMMUNICATIONS EQUIPMENT	INSPECTION FREQUENCY	NAME OF INSPECTOR/ TITLE
EXAMPLE: *PAINT SHOP*	*CARTRIDGE RESPIRATORS - 4 SHOP COATS-4, GLOVES-4pr EXHAUST HOOD - 1*	*FIRE EXTINGUISHERS - 1 SAND - 50 lbs*	*TELEPHONE VERBAL*	*MONTHLY*	*John Doe/Lead Technician*
Office	Safety Glasses-150 pr. Cartridge Respirators-2 ea. Chem. Antidotes- 1 ea	Fire Extinguishers - 2 each ABC Fire Hose - 1 each	Telephones Verbal	See attachment 2	Vic Conti-Maintenance
Manufacturing	Cartridge Respirators-2 each SCBA - 2 each Aprons - 2 each Face Shields - 4 each Gloves - 200 ea. Showers - 2 each Coats-50 ea/Boots-2 pr	Fire Extinguishers - 5 each ABC Chem. Absorbants-30# Chem. Pillows - 10 each Pumps - 4 each	Intercom Telephones - 2 each Verbal	See attachment 2	"
Lab	First Aid Kits - 2 each	Fire Extinguishers - 1 each ABC	Telephones - 2 each Verbal	See attachment 2	"
Outside Storage Area	POTW Sump - Leak Detector		Verbal	See attachment 2	"

ATTACHMENT 2

SAFETY EQUIPMENT INSPECTION FREQUENCY

Monthly	Telephone system, Eye Wash, Safety Showers, Intercom System
Quarterly	Fire Extinguishers
Six Months	Sump Leak Detector Stock Supply of: Safety Glasses, Absorbants, Boots, Gloves, Aprons, Faceshields, Respirators, Other Disposables. Self Contained Breathing Apparatus
Annual	First Air Kits Chemical Antidotes Pumps - Check for Wear

DRB/eh
3/25/87

DEC 2 6 1985

MESA Technology

1130 Terra Bella Avenue
Mountain View, CA 94043

Phone: (415) 961-6372
Telex: 172211 HQ SUVL
FAX: (415) 965-4595

CERTIFIED MAIL

City of Mountain View
Fire Prevention Bureau
Hazardous Materials Section
1000 Villa Street
Mountain View, CA 94041

Re: Hazardous Materials Storage Permit Application
Renewal and Fees for 1986
MESA Technology

Gentlemen:

In accordance with the City of Mountain View's Hazardous Materials Storage Permit Code, MESA Technology is submitting the following:

a) Hazardous Materials Management Plan (Form HM-3)
b) Facility Permit Fee Worksheet (Form HM-3)
c) Fee Payment
d) Storage Facility Permit Quantity Limit (Form HM-3)
e) Hazardous Materials Inventory Statement (Form HM-2)
f) Application for Permit to Operate Underground Storage Tank (Form HSC04-070185)
g) HMMP Questionnaire (Form HM3-5)

If you should have any questions, please feel free to phone me at (415) 961-6372.

Sincerely,

Larry Barber
Manufacturing Manager

JMG/tey:14/27

City of Mountain View, Calif. OFFICIAL RECEIPT

ORIGINATING DEPARTMENT ▶ ☐ FINANCE ☐ RECREATION ☐ POLICE ☒ FIRE ☐ LIBRARY ☐ OTHER _____

DATE 12/26/85

RECEIVED FROM Mesa Technology

ACCOUNT CODE	DESCRIPTION	AMOUNT
261.057.14.11	Haz Mat Anr. Permit fees	350 00
	1986 Revised Renewal	
	1130 Terra Bella Ave.	
	TOTAL	350 00

CHECK NO. 11-14/1210 4629 | CASH | BY [illegible] CASHIER | No. 75075

MFT-5(12/77)

CITY OF MOUNTAIN VIEW

FIRE PREVENTION BUREAU
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

HAZARDOUS MATERIAL MANAGEMENT PLAN

(see back of sheet for instructions)

1986

Official Use Only

ID

(1) Business Name: MESA Technology

(2) Business Phone Number: (415) 961-6372

(3) Facility Street Address: 1400 Terra Bella Ave., Mountain View, CA 94043

(4) Mailing Address: 1400 Terra Bella Ave., City: Mountain View, State: CA Zip Code: 94043

(5) Persons Responsible For:

	Name	Phone Number
APPLICATION	[illegible]	(415) 961-6372
BUSINESS	Charles A. Tuck	(415) 961-6372
PROPERTY	[illegible]	(415) [illegible]

(6) Persons Responsible For Responding In An Emergency After Normal Work Hours

Name	Title	Home Phone Number	Work Phone Number
[illegible]	[illegible]	(408) [illegible]	(408) [illegible]
Charles A. Tuck	President	(415) 948-0361	(415) 961-6372
[illegible]	[illegible]	(415) [illegible]	(415) 961-6372
[illegible]	[illegible]	(415) [illegible]	(415) [illegible]

(7) Business Activity (check applicable box)

- ☒ R & D
- ☒ Manufacturing
- ☐ Repair/Maintenance
- ☒ Processing
- ☒ Offices/Clerical
- ☐ Retail
- ☐ Medical
- ☐ Testing
- ☐ Other

(8) I declare under penalty of perjury, the foregoing information is true and correct.

[illegible] Charles A. Tuck [illegible]

Print Name — Signature — Date

HM-3

Page 1 of 1

CITY OF MOUNTAIN VIEW

FIRE PREVENTION BUREAU
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

STORAGE FACILITY PERMIT QUANTITY LIMIT

(see back of sheet for instructions)

Page (1) of Pages

1986

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ID

(2) Date 12/20/85

(3) Storage Facility

(4) Business Name: MESA Technology

Facility Street Number / Street Name: 1350 Terra Bella Ave., Mountain View, CA 94043

DOT CLASS (5)	Chemical Name/Trade Name (6)	Quantity & Physical State: Gas (Cu Ft) (7)	Liquid (Gal) (8)	Solid (Lbs) (9)	Tank (10)	Waste (11)	Quantity Range (12)
Corr-L	Ammonia/Hunt High Speed Ac-Cu-Guard Copper Etchant Replenisher		110				2
Corr-L	Ammonia and Copper Chloride/Hunt High Speed Ac-Cu-Guard Copper Etchant Starter		110				2
Corr-L	Ammonia and Copper Chloride		110			X	2
Corr-L	Glycol Ether and Ethanolamine/Shipley 1112A Remover		90				2
Corr-L	Tin, Thiourea, Proprietary Blend of Corrosive Acids/Shipley Immersion Tin LT-34		60				2
Corr-L	Sulfuric Acid		120				2
Corr-L	Sodium Hydroxide		90				2
Corr-L	Assorted Corrosive Liquids		100				2
Corr-L	Assorted Corrosive Liquids (Paste)		250			X	2
CL	Assorted Combustible Liquids		50				1
OXY-2	Assorted Oxidizer - Solids			700			2
FL	Acetone		100				2
FL	Assorted Flammable Liquids		100				2
FL	Ketone Solvent		55			X	1
OPN L	Assorted Other Regulated Material - Liquids		20				1

HM-3

CITY OF MOUNTAIN VIEW

FIRE PREVENTION BUREAU
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

~~Page 1 of 3~~

FACILITY PERMIT FEE WORKSHEET
(see back of sheet for instructions)

Official Use Only

ID

(1) Business Name: HEGA Technology

(2) Date: 12/20/89

Facility Street Number / Street Name: 1130 Terra Bella Ave., Mountain View, CA 94043

DOT CLASS (3)	Aggregate Quantity (Cu Ft)	(Gal) (4)	(Lbs)	Quantity Range and Fees 1	2	3 (5)	4	5	DOT Class Abbreviations (6)
Blasting Agent				50	75	100	150	200	BLST
Combustible Liquid		50		25	50	75	100	125	CL
Corrosive Liquid		1040		25	100	125	150	200	CORR-L
Corrosive Solid				25	100	125	150	200	CORR-S
Etiologic Agent				*	*	*	*	*	ETI
Explosives A				150	200	200	200	200	EXP A
Explosives B				100	150	200	200	200	EXP B
Explosives C				75	100	150	200	200	EXP C
Flammable Gas				25	100	125	150	200	FG
Flammable Liquid		235		25	50	75	100	125	FL
Flammable Solid				25	50	100	150	200	FS
Irritant -- Liquid				25	50	75	100	125	IRR-L
Irritant -- Solid				25	50	75	100	125	IRR-S
Nonflammable Gas				25	50	75	100	125	NFG
Organic Peroxide -- Liquid				150	200	200	200	200	PEROX-L
Organic Peroxide -- Solid				150	200	200	200	200	PEROX-S
Other Reg. Mats -- Liquid		20		100	150	175	200	200	ORM-L
Other Reg. Mats -- Solid				100	150	175	200	200	ORM-S
Oxidizer -- Liquid				25	50	100	150	200	OXY-L
Oxidizer -- Solid			200	25	50	100	150	200	OXY-S
Poison A -- Gas				50	100	150	200	250	POIS-G
Poison A -- Liquid				50	100	150	200	250	POIS-L
Poison B -- Liquid				50	100	150	200	250	POIS-L
Poison B -- Solid				50	100	150	200	250	POIS-S
RADIOACTIVE				*	*	*	*	*	RAD
CRYOGEN				25	50	75	100	200	CRYO

(7) Total Fee Due: $ 125 + 100 + 175 + 0 + 0 = $ 150

*Contact Fire Prevention Bureau for additional reporting requirements and fees

CITY OF MOUNTAIN VIEW

HAZARDOUS MATERIAL MANAGEMENT PLAN

(see back of sheet for instructions)

FIRE PREVENTION BUREAU
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

1985

Official Use Only

ID [illegible]

Business Name

(1) MESA Technology

Business Phone Number

(2) (415) 961-6372

Facility Street Address

(3) 1130 Terra Bella Ave., Mountain View, CA 94043

Mailing Address | City | State | Zip Code

(4) 1130 Terra Bella Ave., Mountain View, CA 94043

(5) Persons Responsible For:

	Name	Phone Number
APPLICATION	James F. Marshall	(415)961-6372
BUSINESS	Charles D. Turk	(415)961-6372
PROPERTY	Eugene Sharp	(415)968-8421

(6) Persons Responsible For Responding In An Emergency After Normal Work Hours

Name	Title	Home Phone Number	Work Phone Number
James F. Marshall	Executive V.P.	(415)964-4964	(415)961-6372
Charles D. Turk	President	(415)948-0361	(415)961-6372
Raymond C. Riley	Mfgr. Mgr.	(408)336-8173	(415)961-6372
John Dillmann	V.P. Marketing	([illegible]	(415)961-6372

(7) Business Activity (check applicable box)

- (X) R & D
- ( ) Processing
- ( ) Medical
- ( ) Manufacturing
- ( ) Offices/Clerical
- ( ) Testing
- ( ) Repair/Maintenance
- ( ) Retail
- ( ) Other

(8) I declare under penalty of perjury, the foregoing information is true and correct.

James F. Marshall — Print Name

[signature] — Signature

12/27/84 — Date

HM-3

CITY OF MOUNTAIN VIEW

FIRE PREVENTION BUREAU
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

GENERAL FACILITY MAP
(see back of sheet for example)

Official Use Only

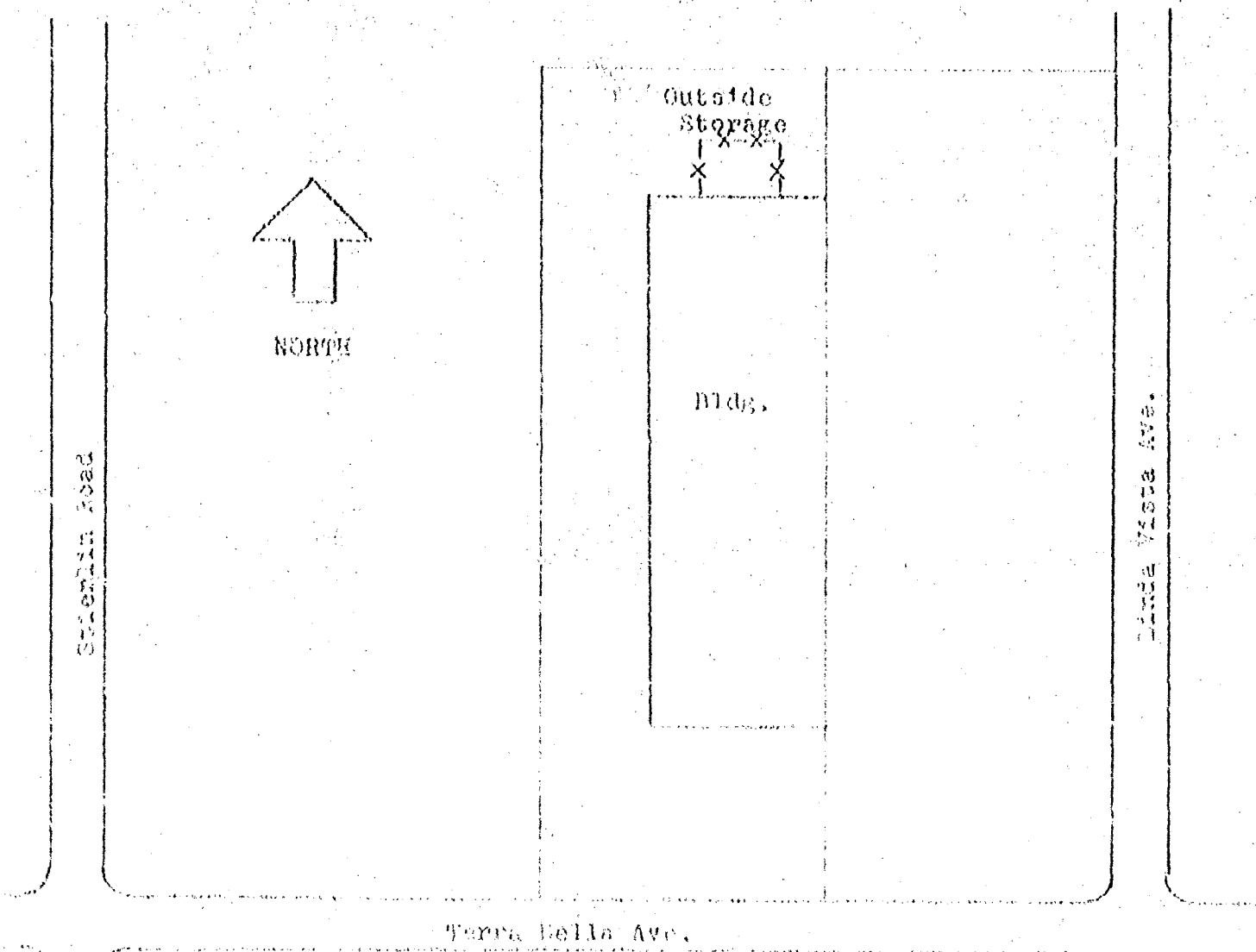
ID

Business Name: MESA Technology

Date: 12/27/84

Facility Street Number / Street Name: 1130 Terra Bella Avenue, Mountain View, CA 94043

Provide a simple line drawing below following the example shown on the back of this form



CITY OF MOUNTAIN VIEW

FIRE PREVENTION BUREAU
1000 Villa Street
Mountain View, CA 94041 (416) 966-6378

STORAGE FACILITY PERMIT QUANTITY LIMIT
(see back of sheet for Instructions)

Page 1 of Pages 1

(1) 1

Official Use Only
ID 691102010

Date
(2) 12/27/84

Storage Facility
(3)

Business Name
(4) MESA Technology

Facility Street Number Street Name
1130 Terra Bella Avenue, Mountain View, CA 94043

DOT CLASS (5)	Chemical Name/Trade Name (6)	Quantity & Physical State Gas (Cu Ft) (7)	Liquid (Gal) (8)	Solid (Lbs) (9)	Tank (10)	Waste (11)	Quantity Range (12)
CL	Assorted Combustible Liquids		10				1
CORR-L	Ammonia/Hunt High Speed Ac-Cu-Guard Copper Etchant Replenisher		55				2
CORR-L	Ammonia and Copper Chloride/Hunt High Speed Ac-Cu-Guard Copper Etchant Starter		110				2
CORR-L	Ammonia and Copper Chloride		55			X	2
CORR-L	Ethanolamine/Shipley Photoposit 1112A Remover		55				2
CORR-L	Tin, Thiourea, Proprietary Blend of Corrosive Acids/Shipley Immersion Tin LT-34		60				2
CORR-L	Sulphuric Acid		60				2
CORR-L	Sodium Hydroxide		60				2
CORR-L	Assorted Corrosive Liquids (Acids)		60				2
CORR-S	Assorted Corrosive Solids			30			1
FL	Acetone		55				2
CL	Assorted Flammable Liquids		25				1
OXY-L	Assorted Oxidizers-Liquid		20				1
OXY-S	Assorted Oxidizers-Solid			50			1
POIS-L	Complexed Cyanide/Sel-Rex Pur-A-Gold 401 Gold Plating Solution		30				1

HM-3

CITY OF MOUNTAIN VIEW

FIRE PREVENTION BUREAU
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

FACILITY PERMIT FEE WORKSHEET
(see back of sheet for instructions)

1985

Official Use Only

ID [ ]

Business Name

(1) MESA Technology

Date

(2) 12-27-84

Facility Street Number Street Name

1130 Terra Bella Avenue, Mountain View, CA 94043

DOT CLASS (3)	Aggregate Quantity (Cu Ft)	(Gal) (4)	(Lbs)	Quantity Range and Fees 1	2	3 (5)	4	5	DOT Class Abbreviations (6)
Blasting Agent				50	75	100	150	200	BLST
Combustible Liquid		10		(25)	50	75	100	125	CL
Corrosive Liquid		516		25	(100)	125	150	200	CORR-L
Corrosive Solid			30	(25)	100	125	150	200	CORR-S
Etiologic Agent				*	*	*	*	*	ETI
Explosives A				150	200	200	200	200	EXP A
Explosives B				100	150	200	200	200	EXP B
Explosives C				75	100	150	200	200	EXP C
Flammable Gas				25	100	125	150	200	FG
Flammable Liquid		80		25	(50)	75	100	125	FL
Flammable Solid				25	50	100	150	200	FS
Irritant -- Liquid				25	50	75	100	125	IRR-L
Irritant -- Solid				25	50	75	100	125	IRR-S
Nonflammable Gas				25	50	75	100	125	NFG
Organic Peroxide -- Liquid				150	200	200	200	200	PEROX-L
Organic Peroxide -- Solid				150	200	200	200	200	PEROX-S
Other Reg. Mats -- Liquid				100	150	175	200	200	ORM-L
Other Reg. Mats -- Solid				100	150	175	200	200	ORM-S
Oxidizer -- Liquid		20		(25)	50	100	150	200	OXY-L
Oxidizer -- Solid			50	(25)	50	100	150	200	OXY-S
Poison A -- Gas				50	100	150	200	250	POIS-G
Poison A -- Liquid		30		(50)	100	150	200	250	POIS-L
Poison B -- Liquid				50	100	150	200	250	POIS-L
Poison B -- Solid				50	100	150	200	250	POIS-S
RADIOACTIVE				*	*	*	*	*	RAD
CRYOGEN				25	50	75	100	200	CRYO

(7) Total Fee Due: $ 150 + 150 + 0 + 0 + 0 = $ 300

*Contact Fire Prevention Bureau for additional reporting requirements and fees.

HM-3

Olin Mesa Corp.
A Subsidiary of Olin Corporation

1130 Terra Bella Avenue
Mountain View, CA 94043
Telephone (415) 961-6372
Fax (415) 965 4505
Telex 172211 HQ SUVL

Olin Mesa

Mr. Chris Steck
Hazardous Materials Specialist
Fire Department
Hazardous Materials Division
City of Mountain View
1000 Villa Street
Mountain View, CA 94041

June 27, 1989

Dear Chris:

Per our conversation I have enclosed a confidential listing of the Olin Mesa process lines and chemical concentrations.

The location map has been updated to highlight the process lines that correspond to the listing.

I hope that this satisfies your request.

I will be on holiday until July 19th. so if you have any questions or comments, please contact me after that date.

Should you wish to conduct your re-inspection before that date, contact Phil Audet at this address.

Sincerely,

Curt M. Richards

Curt M. Richards
Director of Operations
Olin Mesa Corp.

CITY OF MOUNTAIN VIEW

FIRE DEPARTMENT
HAZARDOUS MATERIALS DIVISION
(415) 966-6378

1000 VILLA STREET
MOUNTAIN VIEW, CA 94041

June 8, 1989

Mr. Curt Richards
MESA TECHNOLOGY
1130 Terra Bella
Mountain View, CA 94043

Dear Mr. Richards:

On May 22, 1989, an inspection was conducted at your facility at 1130 Terra Bella to determine compliance with the Hazardous Material Storage Ordinance (Chapter 24, MVMC).

The following items were noted as requiring remedial action for compliance:

Paperwork

1) A recordable spill log shall be kept on site as we discussed.

2) Your closure plan shall be submitted to our office thirty days prior to your departure.

Inside Storage

1) All your process tanks shall be labelled with DOT class, chemical name, and % concentration.

Outside Storage

1) Empty drum storage area shall be labelled as such.

A brief re-inspection of your premises will be conducted during the MONTH OF JULY to confirm that those items not in compliance have been corrected. Failure to correct said items may result in civil penalties of up to $500.00 per day. Further re-inspections will be billed at $40.00 per man hour, one hour minimum. Re-inspections will continue until all items have been corrected.

If you have any questions in this matter, please feel free to contact me at (415) 966-6378.

Sincerely,

Chris Stock

Chris Stock
Hazardous Materials Specialist

bscreen/hmhhins3

Mesa Technology

Contingency Plan

Introduction

The Contingency Plan is based on the "Business Plan for Emergency Response (HM 3-5)" which is required by the City of Mountain View. It is attached for reference and supplemented by the following information. The attached HM 3-5 describes arrangements with local authorities, emergency coordinators, emergency equipment, and the evacuation plan. Hazardous wastes are defined and discussed in the Waste Management Plan.

Purpose

The purpose of the contingency plan is to minimize hazards to human health or the environment which results from fires or releases of hazardous wastes into the environment via the storm drains, the sewers or other means.

These provisions should be implemented as soon as possible whenever an incident occurs which threatens to harm human health or the environment by the release of hazardous wastes.

Procedures

Upon the occurrence of an incident serious enough to harm human health or to threaten the environment the following steps shall be implemented immediately by the Emergency Coordinator (EC):

(a) Activate the internal alarm systems.

(b) Stop leak or continuing problem.

(c) Begin clean up.

(d) The EC shall quantify the materials spilled and the threat to the environment.

(e) If help is required call the following as needed:

1) I. T. Corporation (415) 372-9100
3010 Zankor Road, San Jose
Emergency Spill Response/Clean Up

2) Ambulance - Call 911

3) El Camino Hospital (415) 940-7055
2500 Grant Road, Mountain View

4) Mountain View Fire Department - 911 or
(415) 966-6378

5) Mountain View Police Department - 911 or
(415) 966-6344

6) State Office of Emergency Services - 1-800-852-7550
2800 Meadowview Road, Sacramento 95832

7) Polo Alto Wastewater Treatment Plant - (415) 329-2117
2501 Embarcodero Way, P. O. Box 10250, Palo Alto,
CA 94303

(d) Upon the release of hazardous wastes to the environment the EC shall notify the State Office of Emergency Services and give the following information:

1) Name and phone number of reporter.

2) Name and address of facility.

3) Time and type of incident.

4) Name and quantities of materials.

5) Injuries, if any

6) Possible hazards associated with the incident.

(e) During an emergency the EC shall take all necessary steps to ensure that additional fires or releases do not occur, reoccur, or spread. These measures include stopping operations, containing spilled wastes, etc.

(f) The EC shall provide for the clean up of spills or residues either by in-house personnel or by contract personnel, e.g., I. T. Corporation as listed. (Minor spills should be cleaned up according to the waste management plan).

(g) The EC shall provide that no incompatible wastes are handled in the affected area until the clean up is completed and that all emergency equipment is cleaned and readied for future service before operations resume.

(h) The EC or other management personnel shall notify the Office of Emergency Services and others previously notified that the clean up is completed before resuming operations in the affected areas.

(i) Details of the incident including the time and date shall be entered into the operating record by memo and a written report made within 15 days to the State as per HSC 67145 (J) (1-7). The report shall include the following items:

(1) Name, address, and telephone number of Mesa

(2) Date, time and type of incident (e.g. fire, explosion)

(3) Names and quantities of material involved

(4) Extent of injuries, if any

(5) An assessment of hazards, where applicable

(6) Quantity and disposition of recovered materials resulting from the incident.

DRB/eh
3/26/87

Mesa Technology

Preparedness and Prevention Plan

for Hazardous Waste Storage Areas

Introduction:

Required Equipment:

(a) An internal communications system exists and is adequate for alerting facility personnel of an emergency situation. The System is comprised of an intercom in the manufacturing area, activated by the receptionist, a telephone system to the lab, and augmented by the ease of vocal communications in the office and manufacturing areas. The inside waste flammables storage area would be covered by most of the above while the outside storage area would be informed vocally.

(b) In addition to the telephone system the fire alarms are wired to a security company which contacts the Mountain View Fire Department. These provide ample emergency notification.

(c) Ample emergency response equipment is located on-site to prevent small occurrences from becoming major occurrences. These are described in Attachment 1.

(d) Water Supply is adequate in volume and pressure to supply the sprinkler system and the on-site fire hose.

Testing and Maintenance of Equipment

(a) It is the policy of Mesa that all safety equipment discussed in the above section and identified in Attachment 1 shall be maintained in proper and workable condition. Also, adequate stock

of expendible items will be maintained. The equipment will be tested as called for in Attachment 2, and a written record maintained on file of the inspections.

Access to Communications Equipment

(a) A telephone is immediately available in the operations area in the event that an incident regarding hazardous waste occurs. This is the area in which the waste handling, pumping pouring, etc., occurs and is the most likely place of an event. A fire alarm is located just inside the back door adjacent to the outside drum storage area.

(b) It is the policy that no hazardous wastes will be handled when only one person is present on-site. A minimum of two persons are required to be on-site at the time waste is being handled.

Aisle Space

Adequate aisle space will be maintained around the waste drums to allow personnel to move freely about and to allow for the handling of leaking drums.

Arrangements with Local Authorities

The Emergency Response Plan (HM 3-5) required by the Mountain View Fire Department is to be provided to the following agencies along with HM 3-2 and 3-3:

1 - Office of Emergency Service

2 - Mountain View Fire Department

3 - Mountain View Police Department

4 - El Camino Hospital

In the cover letter of explanation the Fire Department shall be designated at the lead agency. These agencies shall be notified of subsequent changes in the Plan on an annual basis regarding minor changes, and as soon as practical for major changes.

DRB/eh
3/24/87


Detector

Attachment 1

EMERGENCY EQUIPMENT

INSTRUCTIONS: In the blank form provided describe the safety, spill response, and communication equipment you have in place at your facility for use in emergency situations. If practical, report the equipment according to individual job, shop or work activity area within your facility. If applicable, include the elements listed in legend.

Personal Protective & Safety Equipment

Aprons
Gloves
Coats
Chemical Suits
Boots
Safety Glasses
Faceshield
Hard Hats
Cartridge Respirators
Self Contained Breathing Apparatus (SCBA)
First Aid Kits
Exhaust Hoods/Vapor Scrubbers
First Aid Stations
Chemical Antidotes
Eye Wash/Safety Shower

Spill Control/Monitoring Equipment

Fire Blankets
Fire Extinguishers (Type A, B, C & D)
Fire Hoses
Chemical Vapor Monitoring Equipment (Type)
Spill Cart
Chemical Absorbants
Neutralizers
Sand
Leak Repair Kits (Chlorine)
Underground Tank Leak Detection Monitors one
Overpak Drums
Plugging/Diking Materials
Pumps

Communications Equipment

Pager X
Telephones X
Intercoms
Portable Radio(s)
Verbal X

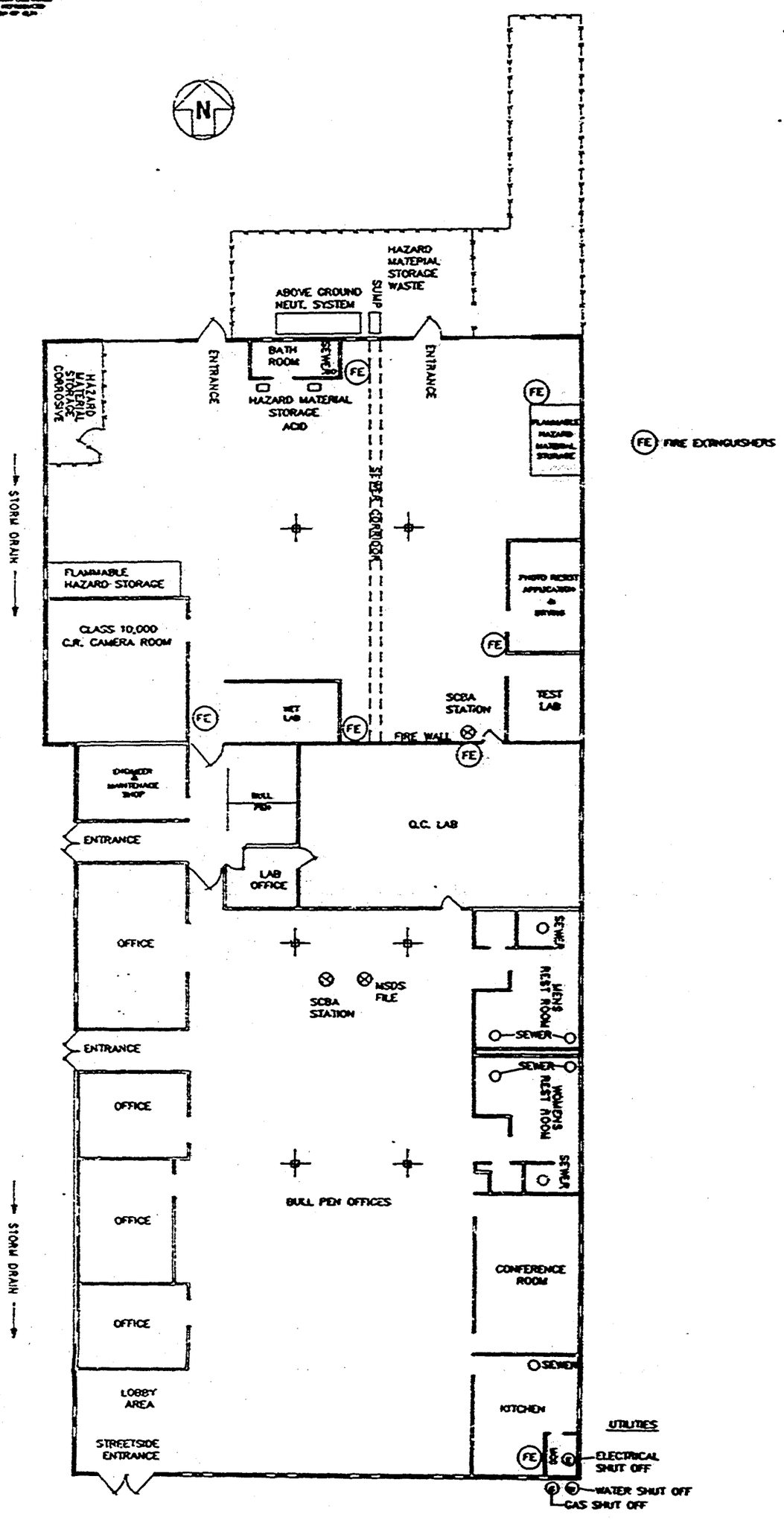
LOCATION (SHOP OR AREA)	PERSONNEL PROTECTIVE & SAFETY EQUIPMENT/AMOUNT	EMERGENCY RESPONSE SPILL EQUIPMENT/AMOUNT	COMMUNICATIONS EQUIPMENT	INSPECTION FREQUENCY	NAME OF INSPECTOR/ TITLE
EXAMPLE: *PAINT SHOP*	*CARTRIDGE RESPIRATORS - 4 SHOP COATS-4, GLOVES-4pr EXHAUST HOOD - 1*	*FIRE EXTINGUISHERS - 1 SAND - 50 lbs*	*TELEPHONE VERBAL*	*MONTHLY*	*John Doe/Lead Technician*
Office	Safety Glasses-150 pr. Cartridge Respirators-2 ea. Chem. Antidotes- 1 ea	Fire Extinguishers - 2 each ABC Fire Hose - 1 each	Telephones Verbal	See attachment 2	Vic Conti-Maintenance
Manufacturing	Cartridge Respirators-2 each SCBA - 2 each Aprons - 2 each	Fire Extinguishers - 5 each ABC Chem. Absorbants-30#	Intercom Telephones - 2 each Verbal	See attachment 2	"
	Face Shields - 4 each Gloves - 200 ea. Showers - 2 each Coats-50 ea/Boots-2 pr	Chem. Pillows - 10 each Pumps - 4 each			
Lab	First Aid Kits - 2 each	Fire Extinguishers - 1 each ABC	Telephones - 2 each Verbal	See attachment 2	"
Outside Storage Area	POTW Sump - Leak Detector		Verbal	See atlachment 2	"

Attachment 2

Safety Equipment Inspection Frequency

Monthly	Telephone system, Eye wash, Safety Showers Intercom system
Quarterly	Fire Extinguishers
Six Months	Sump leak detector Stock supply of : Safety glasses, absorbants, boots, gloves, aprons, face shields, respirators, other disposables. Self Contained Breathing Apparatus
Annual	First Aid Kits Chemical Antidotes Pumps - check for wear

DRB/eh
3/25/87



TERRA BELLA AVENUE

REVISIONS TO THIS DRAWING MUST BE MADE BY THE ACID SYSTEM

Olin
CHEMICALS GROUP
LAKE CHARLES, LA.

PLANT MESA, CALIFORNIA

PROJECT NO. P904 | DWG NO. | SCALE 1/8"-1'-0" | DRAWING NO. MESA-P904-3003-8 | REV. 0

MESA TECHNOLOGY FACILITY PLAN HM3-2

SERVING THE SILICON VALLEY AND THE REST OF THE WORLD

March 25, 1987

City of Mountain View
1000 Villa Street
Mountain View, Ca 94041

RE: Relocation of MHI

Dear Marianne:

Let this serve as formal notice that MHI moved from 1170 Terra Bella Avenue, Mountain View 94043 on October 4, 1986.

Enclosed please find material which is being returned as requested.
Thank you for your advice as to how to handle this matter.

Sincerely,

Judith M. Broyles
Administrator

JMB:lc
Enclosures

micro hytek industries
3087 North First Street San Jose, CA 95134 Tel: (408) 433-0905 Fax: (408) 433-0909

CITY OF MOUNTAIN VIEW

Memo to File

Date 3/16/87

Memo from MM.

Subject 1170 Terra Bella
M.H.I.

Judy called & said they moved out of Mtn View 10/4/86. She will send me a letter & return the forms.

GO-10

CITY OF MOUNTAIN VIEW

FIRE PREVENTION BUREAU
Hazardous Materials Section
Telephone: (415) 966-6378

1000 Villa Street
Mountain View, CA 94041

KATHLEEN JONES
MHI
1170 TERRA BELLA AVE
MOUNTAIN VIEW, CA 94043

HAZARDOUS MATERIALS STORAGE PERMIT CODE--PERMIT APPLICATION

Please Review This Information Thoroughly

No person, firm or corporation shall store any material regulated by the Hazardous Materials Storage Permit Code (MVMC, Chapter 24 et seq.) until a permit or approval has been issued by the City.

THE FORMS AND APPROPRIATE FEES MUST BE SUBMITTED TO
THE MOUNTAIN VIEW FIRE DEPARTMENT BY THE ABOVE STAMPED DATE

1987 HMMP REVISIONS--Due to the passage of State Assembly Bill 2187 (Waters Bill), the mailing of 1987 HMMP forms have been delayed in order to reflect the following revisions:

1) Greater detail is now required on general facility maps;
2) Annual waste throughput must be reported;
3) An emergency response plan must be reported by every facility storing hazardous materials above Quantity Range No. 1.

In addition, Hazardous Materials Storage Permit fees have been increased to reflect the increased cost of processing, enforcement, and clean-up.

PERMIT FEES--Annual fees are paid on a "facility" basis. If you are a tenant and occupy only a portion of a building, you may make a separate payment for the area you occupy. No application shall be accepted unless and until the fees have been paid (MVMC Sec. 24.44.).

LATE CHARGES AND BACK FEES--All permit fees delinquent for thirty (30) days or more shall be subject to double permit fees. The yearly filing deadlines have formerly fallen on December 27th of the previous year, with 1985 as the first year requiring a permit. If hazardous materials were stored in 1985 or 1986, and permits were not obtained, back fees are due for all previous years. Back fees are also required for any errors made in previous submittals affecting the fee calculations. Failure to comply with the ordinance constitutes a violation and is subject to civil penalties of $500 per day per each violation plus the cost incurred by the City for enforcement.

MAY 2 3 1986

City of Mountain View, CA **OFFICIAL RECEIPT**

ORIGINATING DEPARTMENT ▶ ☐ FINANCE ☐ RECREATION ☐ POLICE ☒ FIRE ☐ LIBRARY ☐ OTHER

RECEIVED FROM MHI

DATE 05/23/86

T/C	SUBSIDIARY	INDEX	SUB OBJ.	DESCRIPTION (50 CHAR. LIMIT)	AMOUNT
		261057	1411	Haz Mat Storage Permit for 1986 only 1170 Terra Bella	50.00

CHECK NO. 01769 CASH 11.57 / 38.43 12.00

TOTAL 50.00

FORM FT-5 (8-85)

BY B. Butler CASHIER

No. 01760

City of Mountain View, CA **OFFICIAL RECEIPT**

MAY 29 1986

ORIGINATING DEPARTMENT ▶ ☐ FINANCE ☐ RECREATION ☐ POLICE ☒ FIRE ☐ LIBRARY ☐ OTHER

4427A DATE 06/19/86

RECEIVED FROM MHI

T/C	SUBSIDIARY	INDEX	SUB OBJ	DESCRIPTION (50 CHAR. LIMIT)	AMOUNT
		361057	1411	HazMat Storage Permit fee	50 00
				1985 back fees	
				1170 Tessa Bella	
				TOTAL	50 00

CHECK NO. 01776 11-57/631 1210 CASH

BY GHH CASHIER

No. 01778

FORM FT-5 (8/85)

City of Mountain View, CA **OFFICIAL RECEIPT**

ORIGINATING DEPARTMENT ▶ ☐ FINANCE ☐ RECREATION ☐ POLICE ☒ FIRE ☐ LIBRARY ☐ OTHER

4427A DATE 06/19/86

RECEIVED FROM MHI

T/C	SUBSIDIARY	INDEX	SUB OBJ	DESCRIPTION (50 CHAR. LIMIT)	AMOUNT
		361057	1411	HazMat Storage Permit fee	50 00
				1985 back fees	
				1170 Tessa Bella	
				TOTAL	50 00

CHECK NO. 01776 11-57/631 1210 CASH

BY GHH CASHIER

No. 01778

FORM FT-5 (8/85)

CITY OF MOUNTAIN VIEW

FIRE PREVENTION BUREAU
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

HAZARDOUS MATERIAL MANAGEMENT PLAN

(see back of sheet for instructions)

Official Use Only

ID

(1) Business Name: MHL

(2) Business Phone Number: (415) 960-0363

(3) Facility Street Address: 1170 Terra Bella Ave

(4) Mailing Address: 1170 Terra Bella Ave City: Mtn View State: Ca Zip Code: 94043

(5) Persons Responsible For:

	Name	Phone Number
APPLICATION	Kathleen Lucas	(415) 960-0363
BUSINESS	Myung Kim	(415) 960-0363
PROPERTY	Roger Miller Inc Attn: Dale Miller	(209) 521-4012

(6) Persons Responsible For Responding In An Emergency After Normal Work Hours

Name	Title	Home Phone Number	Work Phone Number
Myung S. Kim	President	(415) 961-3538	(415) 960-0363
		( )	( )
		( )	( )
		( )	( )

(7) Business Activity (check applicable box)

- ☐ R & D
- ☒ Manufacturing
- ☐ Repair/Maintenance
- ☐ Processing
- ☐ Offices/Clerical
- ☐ Retail
- ☐ Medical
- ☐ Testing
- ☐ Other

(8) I declare under penalty of perjury, the foregoing information is true and correct.

Kathleen Lucas — Kathleen Lucas — 5/15/90

Print Name — Signature — Date

HM-3

CITY OF MOUNTAIN VIEW

GENERAL FACILITY MAP
(see back of sheet for example)

FIRE PREVENTION BUREAU
1000 Villa Street
Mountain View CA 94041 (415) 966-6378

Official Use Only

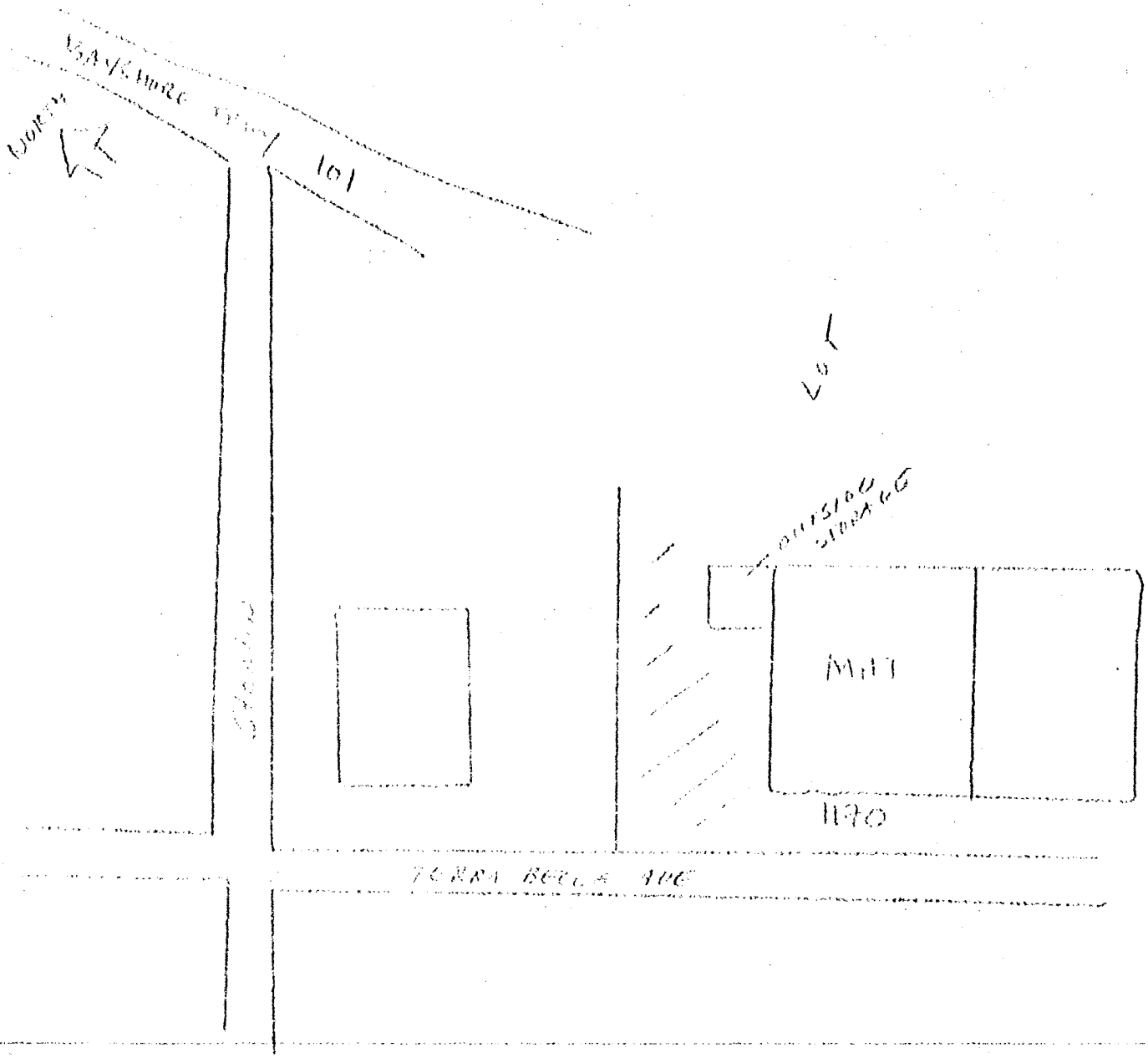
ID

Business Name: MHI

Date: 5-15-86

Facility Street Number: 1170 Street Name: Terra Bella Ave. Mtn View CA

Provide a simple line drawing below following the example shown on the back of this form.



CITY OF MOUNTAIN VIEW

FIRE PREVENTION BUREAU
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

FACILITY PERMIT FEE WORKSHEET
(see back of sheet for instructions)

Official Use Only
ID

(1) Business Name: AMI

(2) Date: 5-12-86

Facility Street Number / Street Name: 1170 Terra Bella Ave, Mtn View, Ca.

DOT CLASS (3)	Aggregate Quantity (Cu Ft)	(Gal) (4)	(Lbs)	Quantity Range and Fees 1	2	3 (5)	4	5	DOT Class Abbreviations (6)
Blasting Agent				50	75	100	150	200	BLST
Combustible Liquid				25	50	75	100	125	CL
Corrosive Liquid				25	100	125	150	200	CORR-L
Corrosive Solid				25	100	125	150	200	CORR-S
Etiologic Agent				*	*	*	*	*	ETI
Explosives A				150	200	200	200	200	EXP A
Explosives B				100	150	200	200	200	EXP B
Explosives C				75	100	150	200	200	EXP C
Flammable Gas				25	100	125	150	200	FG
Flammable Liquid		65		25	(50)	(75)	100	125	FL
Flammable Solid				25	50	100	150	200	FS
Irritant -- Liquid				25	50	75	100	125	IRR-L
Irritant -- Solid				25	50	75	100	125	IRR-S
Nonflammable Gas				25	50	75	100	125	NFG
Organic Peroxide -- Liquid				150	200	200	200	200	PEROX-L
Organic Peroxide -- Solid				150	200	200	200	200	PEROX-S
Other Reg. Mats -- Liquid				100	150	175	200	200	ORM-L
Other Reg. Mats -- Solid				100	150	175	200	200	ORM-S
Oxidizer -- Liquid				25	50	100	150	200	OXY-L
Oxidizer -- Solid				25	50	100	150	200	OXY-S
Poison A -- Gas				50	100	150	200	250	POIS-G
Poison A -- Liquid				50	100	150	200	250	POIS-L
Poison B -- Liquid				50	100	150	200	250	POIS-L
Poison B -- Solid				50	100	150	200	250	POIS-S
RADIOACTIVE				*	*	*	*	*	RAD
CRYOGEN				25	50	75	100	200	CRYO

(7) Total Fee Due: $ 50 + [illegible] = $ 50

*Contact Fire Prevention Bureau for additional reporting requirements and fees.

HM-3

MOUNTAIN VIEW FIRE DEPARTMENT

BUREAU OF FIRE PREVENTION

MOUNTAIN VIEW, CA. 94041

HAZARDOUS MATERIALS INVENTORY STATEMENT

as required pursuant to
MVMC, Chapter 24, Section 24.21

I.D. NUMBER

DATE: 05/22/86

BUSINESS NAME: MJK

BUS. PHONE: 960-2363

NUMBER: 1120 | STREET AND BUILDING: West Bel Air Ave | ROOM:

D.O.T. Class (1)	UN/NA# or E.P.A. Waste Code (2)	Chemical Name or Major Constituents in a mixture (3)	Common/Trade Name and Manufacturer (4)	Gal. Solid Container (5)	Liq. Material (6)	Gas/Vapor (7)	Quantity (8)	Quantity Range (9)
[illegible]	[illegible]	Cleaning Compound Caustic	[illegible]		X		X	1
[illegible]		[illegible]	[illegible]		X		X	1
[illegible]		[illegible]	[illegible]		X		X	1

FORM HM-2 White: Permittee 3 Copies: Fire Department

City of Mountain View Fire Department
Hazardous Materials Division
1000 Villa Street, Mountain View, CA 94041
(415) 966-6378

HAZARDOUS MATERIALS SAFETY NOTICE

Business Name Tekmar Inc. Business Phone 968-9400 Area Sq. Ft. 24000

Address 1720 Terra Bella Emergency Phone ( ) 949-3097 UBC Class B-2

MDist 47C Alarm ___ Sprinkler ___ Responsible Name: Raymond Collins

Inspection Date 8-22-90 Duration 30 min. Inspector D. Franklin

Re-Inspection Appt. ___ Re-Inspection ___ Duration ___ Inspector ___

Second Re-Inspection ___ Duration ___ Inspector ___

✓ A. A REASONABLE DEGREE OF COMPLIANCE EXISTS AT THIS TIME.
___ B. MOUNTAIN VIEW CITY ORDINANCE NO. 25.83 REQUIRES COMPLIANCE WITH ITEMS LISTED BELOW.

___ a. Facility requires hazardous materials management plan.
___ b. Facility no longer stores hazardous materials.
___ c. Business moving or vacant. Approximate date of move: ___
___ d. Facility requires technical assistance.

		CODE REFERENCE
1.	**MATERIALS REGULATED:**	
___ a.	Reduce hazardous materials stored at work station to one day's usage.	24.7
___ b.	Report all underground storage tanks on HMMP.	24.7.1
2.	**CONTAINMENT STANDARDS:**	
___ a.	Provide all necessary permits for construction of storage facility.	24.8
___ b.	Provide a means of monitoring stored materials.	24.9.b
___ c.	Construct secondary containment capable of containing stored materials.	24.9.c
___ d.	Provide secondary containment of at least 110% for single container storage.	24.9.c
___ e.	Provide secondary containment of 150% of largest container for multiple container storage	24.9.c
___ f.	Construct unprotected secondary containment to hold 24-hour rainfall average.	24.9.c
___ g.	Provide separation of incompatible stored materials.	24.9.e
___ h.	Remove or close any abandoned storage facilities. Contact HazMat Division for specific requirements.	24.11.c
___ i.	Post signs indicating location and type of material stored. Contact HazMat Division for specific requirements.	24.14.c
___ j.	Secure access to storage facility.	24.15
___ k.	Post simplified emergency procedures in storage or use areas.	24.17
3.	**HAZARDOUS MATERIALS MANAGEMENT PLAN:**	
___ a.	Amend Hazardous Materials Directory.	24.18
___ b.	Amend Hazardous Materials Facility Map.	24.19.a
___ c.	Amend Hazardous Materials Inventory Statement and fees	24.19.b
4.	**RESPONSIBILITY:**	
___ a.	Contain and safely dispose of any unauthorized discharge.	24.25.a
5.	**INSPECTION AND RECORDS:**	
___ a.	Maintain all records for a period of not less than 3 years.	24.32
6.	**APPLICATION FOR PERMIT:**	
___ a.	Obtain and post current Hazardous Materials Storage Permit.	24.33

8. **ADDITIONAL COMMENTS AND/OR REQUIREMENTS:**

___ a. ___

___ b. ___

___ c. ___

___ d. All violations noted were corrected.

OCCUPANT'S SIGNATURE [signature]

HMINSP-1 (Rev 8/83) WHITE---Fire Department Copy YELLOW---HazMat Division Copy PINK---Issue Copy

CITY OF MOUNTAIN VIEW
HAZARDOUS MATERIALS DIVISION
1000 VILLA STREET, MOUNTAIN VIEW, CA 94041 • 415-966-6378

HAZARDOUS MATERIAL STORAGE PERMIT

THIS PERMIT EVIDENCES THAT THE FIRM OR CORPORATION NAMED HEREIN HAS PAID THE APPLICABLE FEES AND IS AUTHORIZED TO STORE HAZARDOUS MATERIALS AT THE FACILITY INDICATED BELOW IN ACCORDANCE WITH CHAPTER 24 OF THE MOUNTAIN VIEW MUNICIPAL CODE

Permitted Facility: Telewave, Inc.
1170 Terra Bella Avenue

Telewave, Inc.
1170 Terra Bella
Mountain View, CA 94043
Attn: Sam Selbert

Date Issued: May 31, 1990
Date Expires: April 1, 1991
Permit ID: 1711

Hazardous Materials Division

POST IN A CONSPICUOUS PLACE

This FULL—TERM permit limits the firm or corporation named herein to store the following maximum quantities of hazardous materials at the Permitted Facility:

Hazard Class	Quantity	Units
CRM-L — City Req. Mats - Liquid	110	Gal
FL — Flammable Liquid	5	Gal

CLOSURE PLAN

Please fill out the following items concerning the closure of your facility. Enter "N/A" for any items that do not apply to your situation.

Business Name: TELEWAVE, INC.

Facility Address: 1170 TERRA BELLA AVENUE, MT. VIEW

Proposed Date of Closure: AS SOON AS POSSIBLE

1) Disposition of all hazardous materials: (excluding waste)

__ Return to supplier/manufacturer (List chemicals & suppliers on back)

X Moved to new location (List chemicals on back)

New Facility Address:

1145 TERRA BELLA AVENUE
MT. VIEW 94043

2) Company removing all hazardous waste:

Name: TELEWAVE, INC.

Address: 1155 TERRA BELLA EPA ID#: ----

TS&D Facility:

EPA ID#: ----

Are all hazardous waste manifests attached? NO

3) If removing Underground Storage Container(s), have you submitted separate "Underground Tank Removal" forms? NONE

I hereby certify that the above information is complete and correct.

Name (Signature) — 01-29-91 Date

SAM H. SEIBERT — Name (Printed)

V.P. — Title

Property owner (Signature) — JAN 29, 1991 Date

FOR OFFICE USE ONLY

Date of Final Inspection: 2/7/91

Final Inspection Results: No Hazardous Spill or Contamination observed. All materials have been relocated to the Tierra Bella Ar.

Soil Samples Required? N/A
If so, specify location(s):

Groundwater Sampling Required? N/A
If so, specify location(s):

Date Forwarding City Notified Of Company Move: N/A

Date Copy sent to CMV Wastewater Discharge Specialist: 2/7/91

Date Closure Plan Completed: 2/7/91 .

Inspector: .

hmclplan
1/26/90

City of Mountain View, CA OFFICIAL RECEIPT

ORIGINATING DEPARTMENT ▶ ☐ FINANCE ☐ RECREATION ☐ POLICE ☒ FIRE ☐ LIBRARY ☐ OTHER .....

RECEIVED FROM TELEVUE DATE 05/30/9[illegible]

T/C	SUBSIDIARY	INDEX	SUB OBJ.	DESCRIPTION (50 CHAR. LIMIT)	AMOUNT
		26502	1411	HAZMAT STORAGE FEES	2550 —
				1990	
				1170 TERRA BELLA	
				TOTAL	2550 —

CHECK NO. 11-24 17510 1210-38 CASH 2. BY CBP CASHIER No. 51395

FORM FI-5 (12/87)

CITY OF MOUNTAIN VIEW
HAZARDOUS MATERIALS DIVISION
1000 VILLA STREET, MOUNTAIN VIEW, CA 94041 • 415-966-6378

HMMP FACILITY DIRECTORY
(see back of sheet for instructions)

Official Use Only
ID

Business Name
(1) TELEWAVE, INC.

Business Phone Number
(2) (415) 968-4400

Facility Street Address
(3) 1180 TERRA BELLA AVENUE

	Mailing Address	City	State	Zip Code
(4)	1155 TERRA BELLA AVENUE	MOUNTAIN VIEW,	CA	94043

Attention
(5) SAM SEIBERT

	Name	Phone Number
(6) Corporate Officer	RAYMOND L. COLLINS	(415) 968-4400
(7) Property Owner	BURT C. KENDALL UNKNOWN NEW OWNER	(408) 688-6344 UNKNOWN

(8) Persons Responsible For Responding In An Emergency After Normal Work Hours

Name	Title	Home Phone Number	Work Phone Number
RAYMOND L. COLLINS	PRESIDENT	(415) 949-3047	(415) 968-4400
SAM R. SEIBERT	VICE PRESIDENT	(408) 294-3919	(415) 968-4400
GERALD A. SIKORA	OPERATIONS MGR.	(415) 965-0411	(415) 968-4400
TROED JOHNSON	FOREMAN-SHOP	(408) 227-1124	(415) 968-4400

(9) Business Activity Description: ANTENNA MANUFACTURER
(10) SIC Code: 3663
(11) Dun & Bradstreet No.: 05-354-6808

(12) Shift Times:
First: 7:00 a.m. to 3:30 p.m. Second: to Third: to

(13) Number of Employees Per Shift:
First: 4 Second: Third:

(14) I declare under penalty of perjury, the foregoing information is true and correct.

SAM R. SEIBERT — 5-23-90

Print Name — Signature — Date

HM3-1
Rev. 1/90

White: Applicant 3 Copies: Fire Department

CITY OF MOUNTAIN VIEW

HAZARDOUS MATERIALS DIVISION
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

GENERAL FACILITY MAP
Amended 1988
(see back of sheet for instructions)

Official Use Only

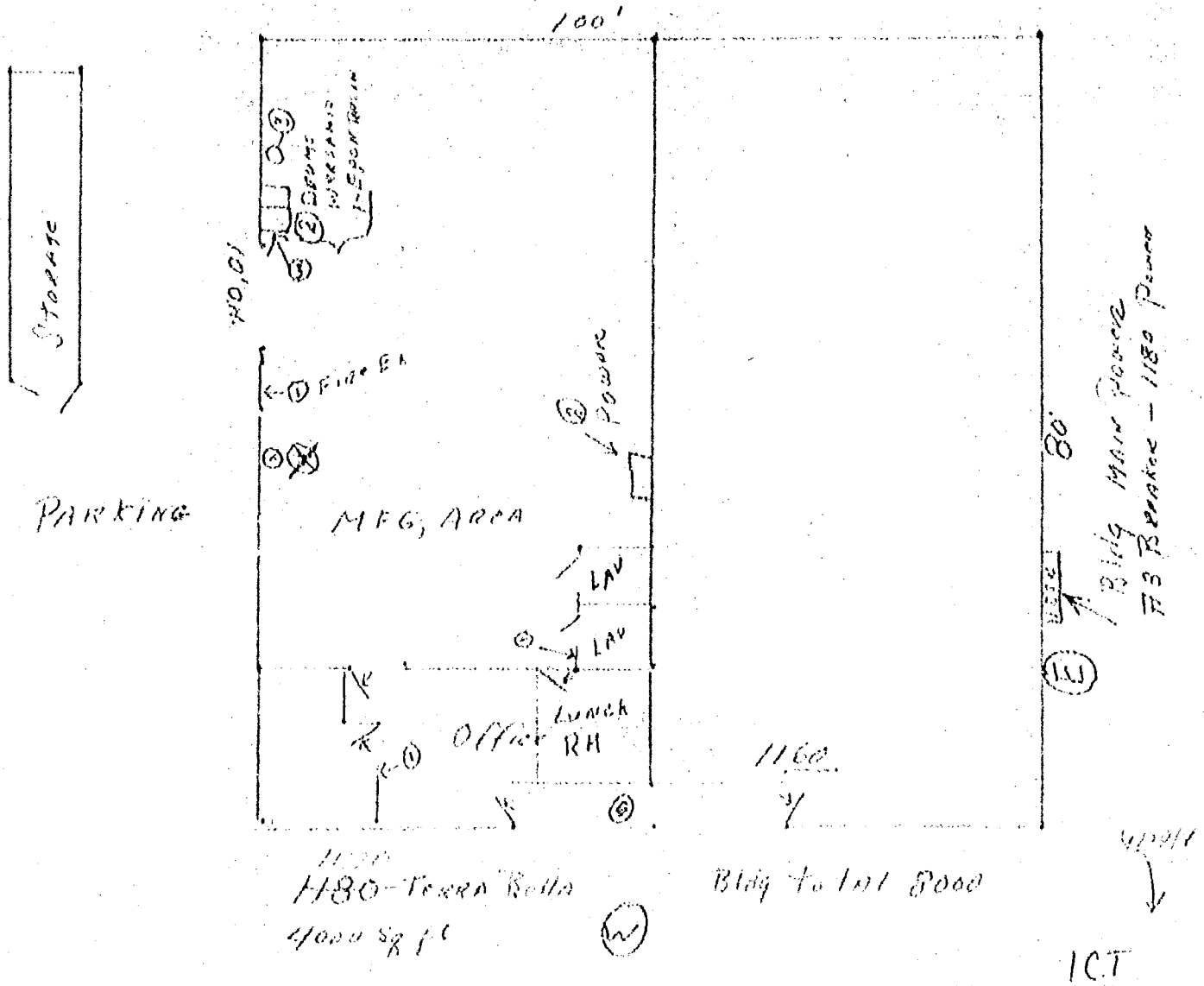
ID

Business Name: TELEWAVE, INC.

Date: 5/23/90

Facility Street Number: 1170 Street Name: 1180 TERRA BELLA AVENUE

Provide a simple line drawing below following the example and instructions on the back of this form.



HM3-2 (Rev. 11/80) White: Applicant 3 Copies Fire Department

CITY OF MOUNTAIN VIEW
HAZARDOUS MATERIALS DIVISION
1000 VILLA STREET, MOUNTAIN VIEW, CA 94041 • 415-966-6378

HAZARDOUS MATERIALS INVENTORY STATEMENT

Amended 1990
(see back of sheet for instruction)

Official Use Only

ID

Page (1) of Pages

Date (2) 5/23/90

Business Name (3) TELEWAVE, INC.

Facility Street Number: 1100 Street Name: TERRA BELLA AVENUE

HAZARD CLASS (4)	Trade Name/Chemical Name (5)	Map Location (6)	Quantity & Physical State: Gas (Cu Ft) (7)	Liquid (Gal) (8)	Solid (Lbs) (9)	Container Type (10)	Temperature (11)	Pressure (12)	Waste Annual Throughput (13)
CRM-G	Resin Flux RJJ-A-35DA	3		5		PAIL	AMB	AMB	0
CRM-L	EpoxnResin 828	2		55		DRUM	AMB	AMB	0
CRM-L	Versamid 125	3		55		DRUM	AMB	AMB	0
[illegible]	Propane	4	100			CYL	AMB	AMB	0

HM3-3 (Rev. 1/90) White: Applicant 3 Copies Fire Department

CITY OF MOUNTAIN VIEW
HAZARDOUS MATERIALS DIVISION
1000 VILLA STREET, MOUNTAIN VIEW, CA 94041 • 415-966-6378

HMMP FEE WORKSHEET

Amended 1987
(see back of sheet for instructions)

Official Use Only

ID

Business Name

(1) TEREMAVE, INC.

Date

(2) 5/23/90

Facility Street Number(s) Street Name

1180 TERRA BELLA AVENUE

HAZARD CLASS (3)	Aggregate Quantity (Cu Ft)	(Gal)	(Lbs) (4)	Quantity Range and Fees (5) 1	2	3	4	5	6 (Refer To Instructions)	Hazard Class Abbrev. (6)
Blasting Agent				100	200	300	350	400		BLST
*City Reg. Mats.--Liquid		115		100	125	150	175	200	125	CRM-L*
*City Reg. Mats.--Solid				100	125	150	175	200		CRM-S*
Combustible Liquid				100	150	200	250	300		CL
Corrosive Gas				100	200	300	350	400		CORR-G
Corrosive Liquid				100	200	300	350	400		CORR-L
Corrosive Solid				100	200	300	350	400		CORR-S
Etiologic Agent				150	200	200	200	200		ETI
Explosives A				200	300	400	400	400		EXP A
Explosives B				150	200	300	400	400		EXP B
Explosives C				100	150	200	300	400		EXP C
Flammable Gas	163			100	200	300	350	400	200	FG
Flammable Liquid		5		100	150	200	250	300		FL
Flammable Solid				100	150	200	250	300		FS
Irritant--Liquid				100	150	200	250	300		IRR-L
Irritant--Solid				100	150	200	250	300		IRR-S
Nonflammable Gas				100	150	200	250	300		NFG
Organic Peroxide--Liquid				100	200	300	400	500		PEROX-L
Organic Peroxide--Solid				100	200	300	400	500		PEROX-S
Other Reg. Mats.--Liquid				100	150	175	200	250		ORM-L
Other Reg. Mats.--Solid				100	150	175	200	250		ORM-S
Oxidizer--Liquid				100	200	300	350	400		OXY-L
Oxidizer--Solid				100	200	300	350	400		OXY-S
Poison A--Gas				100	200	300	400	500		POIS-G
Poison A-- or B--Liquid				100	200	300	400	500		POIS-L
Poison A-- or B--Solid				100	200	300	400	500		POIS-S
RADIOACTIVE				125	125	125	125	125		RAD
CRYOGEN				100	200	300	350	400		CRYO

(7) TOTAL FEE DUE: $ ____ + 125 + ____ + ____ + ____ + ____ = $ 125

*City Regulated Materials *not* classified under 49 CFR parts 172 or 173 or Uniform Fire Code

Make check or money order payable to the City of Mountain View and attach to this worksheet.

HM3-4 (Rev. 12/89) White: Applicant 3 Copies: Fire Department

CITY OF MOUNTAIN VIEW
FIRE DEPARTMENT

EMERGENCY RESPONSE PLAN
Section I: Evacuation Procedures

This emergency response plan describes the personnel, procedures, and equipment your facility has available to respond to a release or threatened release of the hazardous materials you store or use. This plan is for the protection of your and your employees. For small facilities, this plan may be sufficient to adequately address all your emergency response concerns. For larger or more complex facilities, supplemental and detailed emergency response information should be maintained on site and be available for review by the Fire Department.

1. *By which method(s) is the Emergency Coordinator (EC) at your facility notified that an emergency (i.e., an actual or threatened hazardous materials release) is taking place? (Check applicable items.)*

☐ Alarms: Name of Manufacturer [illegible]
Last Test Date _____ Test Frequency _____

☐ Horns: Last Test Date _____ Test Frequency _____

☐ Emergency Phone Number: Number _____

☑ Shouting

☐ Other _____

2. *Once the EC has been notified of an emergency situation, what outside agencies does he/she notify? (Check applicable items.)*

☒ Agency: *FIRE DEPARTMENT* Phone *9 1 1*

☒ Agency: *State Office of Emergency Services* Phone *1-800-852-7550*

☐ Agency: _____ Phone _____

☐ Agency: _____ Phone _____

3. *Indicate the extent of your evacuation pre-planning. (Check applicable items.)*

☑ Immediate area evacuation routes defined and procedures developed.

☐ Entire building evacuation procedures developed.

☒ Assembly areas pre-planned.

☒ Evacuation maps posted.

☐ Other: _____

4. *Should personnel be injured during the emergency, your facility must have a nearby clinic/hospital available for treatment:*

Medical Facility Name [illegible]
Medical Facility Address [illegible]
Medical Facility Phone Number (24-hour) [illegible]
Approximate Distance to Medical Facility [illegible]

CITY OF MOUNTAIN VIEW
FIRE DEPARTMENT

EMERGENCY RESPONSE PLAN
Section II: Spill Control / Mitigation Equipment

INSTRUCTIONS: In the blank form provided describe the safety, spill reponse, and communication equipment you have in place at your facility for use in emergency situations. If practical, report the equipment according to individual job, shop, or work activity area within you facility. If applicable, include the elements listed in legend.

PERSONAL PROTECTIVE AND SAFETY EQUIPMENT

Aprons
Gloves
Coats
Chemical Suits
Boots
Safety Glasses
Faceshield
Hard Hats
Cartridge Respirators
Self Contained Breathing Apparatus (SCBA)
First Aid Kits
Exhaust Hood/Vapor Scrubbers
First Aid Stations
Chemical Antidotes
Eye Wash/Safety Shower

SPILL CONTROL/MONITORING EQUIPMENT

Fire Blankets
Fire Extinguishers (Type A, B, C, and D)
Fire Hoses
Chemical Vapor Monitoring Equipment (Type)
Spill Cart
Chemical Absorbents
Neutralizers
Sand
Leak Repair Kits (Chlorine)
Underground Tank Leak Detection Monitors
Overpak Drums
Plugging/Diking Materials
Pumps

COMMUNICATIONS EQUIPMENT

Pager
Telephones
Intercoms
Portable Radio(s)
Verbal

LOCATION (SHOP OR AREA)	PERSONAL PROTECTIVE & SAFETY EQUIPMENT/AMOUNT	EMERGENCY RESPONSE SPILL EQUIPMENT/AMOUNT	COMMUNICATIONS EQUIPMENT	INSPECTION FREQUENCY	NAME OF INSPECTOR/TITLE
EXAMPLE: Print Shop	*Cartridge Respirators - 4 Shop Coats-4, Gloves-4pr Exhaust Hood-1*	*Fire Extinguishers-1 Sand-50 lbs.*	*Telephone Verbal*	*Monthly*	*John Doe/Lead Technician*
MFG AREA BY RIGHT OF O.H. DOOR	APRON - 1 GLOVES - 4 FACESHIELD - 1 GLASSES - 1 RESPIRATOR - 1	DRY POWDER 3 A 40 BC - 3 units CTL DRY	VERBAL	Monthly	FORRHAN-LOU DEGUHAN JR.

CITY OF MOUNTAIN VIEW
FIRE DEPARTMENT

EMERGENCY RESPONSE PLAN
Section III: Emergency Response Training Program

1. PERSON RESPONSIBLE FOR EMERGENCY RESPONSE TRAINING PROGRAM:

Name TROYD JOHNSON Title FOREMAN Phone (415) 968-4400

2 TRAINING REQUIREMENTS (Check all applicable items.)

All employees are trained in the following procedures:

- [XX] Notification of emergency response coordinator
- [XX] Notification of external emergency response organizations (e.g. Fire Department)
- [XX] Location and content of emergency response plan
- [XX] Evacuation

Chemical handlers are additionally trained in the following:

- [XX] Safe methods for handling and storage of hazardous materials
- [XX] Proper use of personal protection equipment
- [XX] Locations and proper use of fire and spill control equipment
- [XX] Specific hazards of each chemical to which they may be exposed, including the pathways of exposure (i.e., skin absorption, inhalation, ingestion)

Emergency response team members are additionally trained in the following procedures:

- [XX] Shutdown of operations
- [ ] Use, maintenance, and replacement of emergency response equipment

- [XX] ALL PERSONNEL RECEIVE APPROPRIATE EMERGENCY RESPONSE TRAINING WITHIN SIX MONTHS OF HIRING
- [XX] REFRESHER TRAINING IS PROVIDED AT LEAST ANNUALLY

3. PERSONNEL TRAINING RECORDS

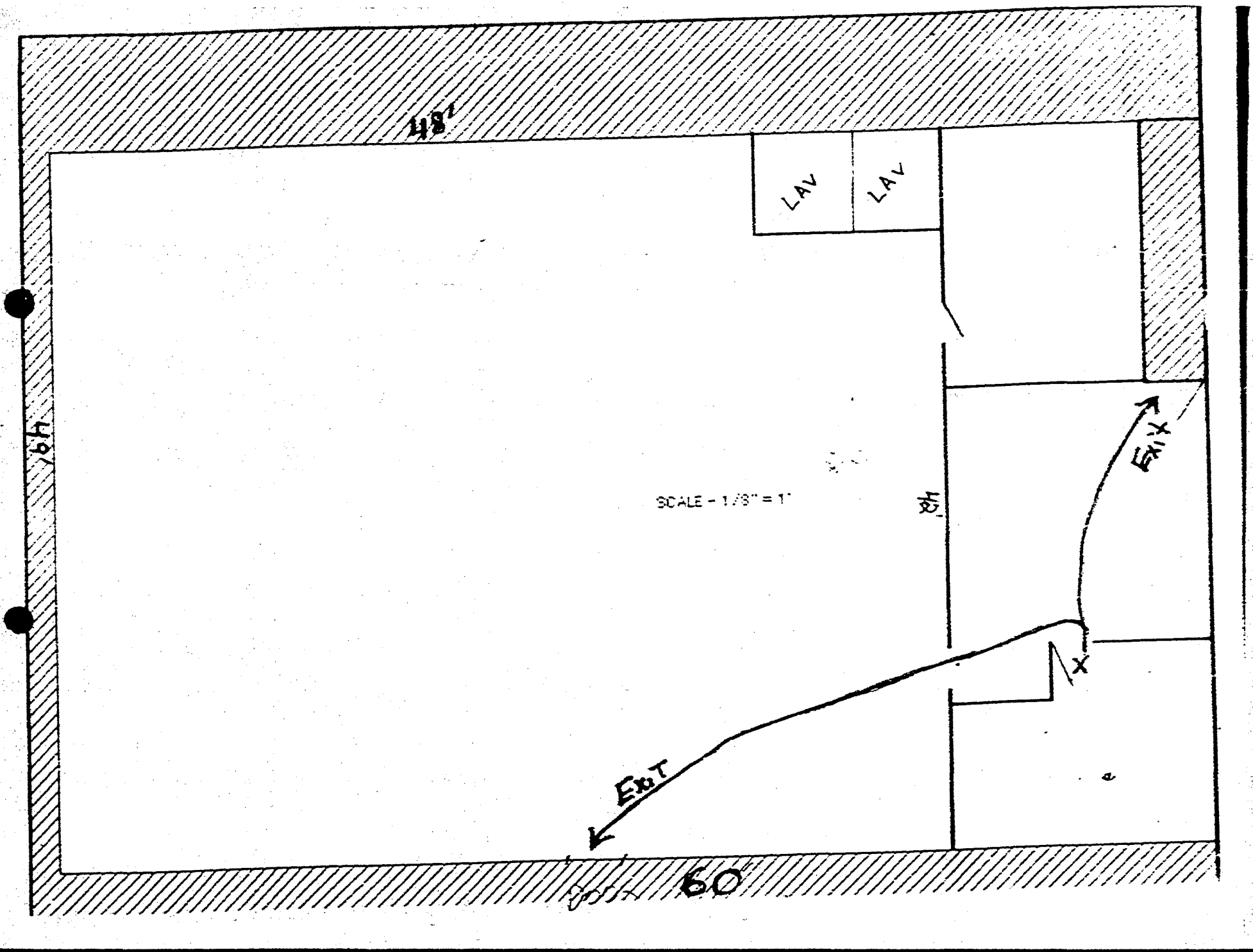
The following training records are maintained for each employee:

- [ ] Type and amount of introductory and continuing training
- [ ] Date that training was completed
- [ ] Description of facility emergency reponse drills
- [ ] Former employees' training records are retained for at least three years

Your Emergency Response Plan must be on-site and available for review by the Fire Department.

Emergency Response Plan Location FRONT OFFICE

Responsible Person LOU DECKMAN JR.


48'
LAV
LAV
49'
SCALE - 1/8" = 1'
EXIT
EXIT
60

City of Mountain View, CA OFFICIAL RECEIPT

ORIGINATING DEPARTMENT ▶ [ ] FINANCE [X] FIRE [ ] RECREATION [ ] LIBRARY [ ] POLICE [ ] OTHER _____

RECEIVED FROM Olin Mesa Corp. SBATEL 10/0/7/8/9

T/C	SUBSIDIARY	INDEX	SUB OBJ.	DESCRIPTION (50 CHAR. LIMIT)	AMOUNT
		26517	1411	HAZMAT Sump Removal Permit Applic.	106 00
				(1 Sump Removal) COME VEVIL	
				1130 TERRA BELLA AVENUE	
					106 00

CHECK NO. 015598 Wb. 35 331 | CASH | BY _____ CASHIER | No. 45844

FORM F1-5 (12/87)

APPROVAL	DATE	INSPECTOR	COMMENTS
FOUNDATION			
SETBACKS			
FORMS - STEEL			
SLAB			
COLUMNS			
FIREPLACE			
UFER GRD			
WALL STEEL			
BOND BEAM			
PRESTRESSED			
STRUCTURE			
JOIST			
BOND BEAM			
WALL STEEL			
SHEAR NAIL			
ROOF SHEATHING			
FLOOR SHEATHING			
FRAME - ROOF			
FRAME - WALL			
FRAME FLOOR			
EXT. SHEATHING			
T-BAR			
INSULATION			
RE-ROOF - TEAR OFF			
RE-ROOF - IN PROG.			
RE-ROOF - FINAL			
DRYWALL			
TILE LATH			
INT. LATH			
EXT. LATH			
FINAL			
PLUMBING			
STORM			
SEWER			
ROUGH			
VENTS			
SHOWER PAN			
GAS ROUGH/TEST			
FINAL GAS			
ROOF/FLOOR DRAINS			
WATER			
UNDERGROUND			
UNDER SLAB/FLOOR			
CITY SEW LATERAL			
FINAL			
HEATING			
DUCTS			
FLUES			
FURN/BOILER			
HOODS			
A/C UNITS			
ABOVE CEILING			
REGISTERS			
FIRE DAMPERS			
FANS			
UNDERGROUND			
FINAL			
SOLAR			
PANELS			
PIPING			"ALLOWED TIME FOR INSPECTION IS 1 Hr.
CONTROLS			ADDITIONAL TIME WILL BE BILLED AT THE RATE
FINAL			OF $100.00 PER MAN-HOUR, 1 HOUR MINIMUM."
FINAL			
ELECTRIC			
UNDERGROUND			
ROUGH			
TRIM-OUT FINAL			
SERVICE			
BONDING			
GROUNDING			
CEILING FIXTURES			
CONDUIT			
TEMP POWER POLE			
FINAL			
TEMP PERM POWER			
FINAL			

CITY OF MOUNTAIN VIEW

BUILDING PERMIT

Arrange for inspections by calling

(415) 966-6371 or 966-6313

Please give your name, permit number, job address, and type of inspection requested. When properly signed this card is a

CERTIFICATE OF OCCUPANCY.

PERMIT ISSUED	DATE 10/4/85	PERMIT NO.
BUILDING ADDRESS 1130 TERRA BELLA AVE		APT./UNIT NO.
CONTRACTOR RUN MECA CORP		
MAILING ADDRESS 3500 GARRETT DRIVE		
SANTA CLARA, CA 95054		
TELEPHONE (408) 982-2234		
DESCRIPTION OF WORK SUMP REMOVAL		

ELECTRICAL INSTALLATION ACCEPTANCE

Date Approved _____

INSPECTOR

PLUMBING INSTALLATION ACCEPTANCE

Date Approved _____

INSPECTOR

FINAL	DATE	APPROVED
BUILDING DEPT.		
FIRE DEPT.		
UTILITIES/WATER		
HAZ. MATERIALS		
PARKS/FACILITIES		
POLICE		
PUBLIC WORKS		
PLANNING/ZONING		

FINAL INSPECTION

This Building must not be occupied until a final inspection has been called for and certified below.

Date _____ Building Inspector

III. REMEDIATION:

F. THE SUMP AREA WAS TESTED (ATTACHMENT V), THE SUMP CONCRETE WAS CHIPPED OUT AND DISPOSED. SAMPLES WERE TAKEN OF THE SOIL BENEATH THE SUMP AREA AND TESTED FOR COPPER CONTAMINATION LEVELS. SOIL SAMPLE ANALYSIS SHOWED 340 MG/KG COPPER (ATTACHMENT VIII) AND 2.1 MG/L (ATTACHMENT X). NO FURTHER ACTION IS REQUIRED BASED ON THE SOIL ANALYSIS.

I. FOR WIPE SAMPLES DETECT CONTAMINATION ABOVE ACTION LEVELS, AFTER DECONTAMINATION WIPE SAMPLES WERE OBTAINED TO VERIFY DECONTAMINATION WAS COMPLETE (ATTACHMENT VII & ATTACHMENT IX).

J. ALL CONCRETE AND SOIL WILL BE REMOVED BY TUESDAY NOVEMBER 5, 1989.

IV. CONCLUSIONS

A. THERE ARE NO ENVIRONMENTAL OR HEALTH RISK POSED BY THE FACILITY AFTER COMPLETION OF REMEDIATION. OLIN MESA DID NOT EXPERIENCE ANY REPORTABLE SPILLS IN THE HISTORY OF THE COMPANY. IN SEPTEMBER 1988, A PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT AND GROUNDWATER INVESTIGATION WAS COMPLETED. NO DETECTABLE CONCENTRATIONS OF SEMIVOLATILE ORGANIC COMPOUNDS WERE REPORTED. TRICHLOROETHYLENE (TCE) AND TRANS-1,2-DICHLOROETHYLENE (T-1,2-DCE) WERE DETECTED. OLIN MESA USES RESEARCH QUANTITIES OF TCE AND HAS NEVER USED DCE. BECAUSE TCE AND DCE WERE DETECTED IN THE UPGRADIENT WELL, IT APPEARS THESE COMPOUNDS ORIGINATED FROM AN OFFSITE SOURCE.

THE FINAL WIPE SAMPLE ANALYSIS SHOWED THAT ALL AREA SAMPLES WERE BELOW THE BACKGROUND SAMPLES FOR NICKEL AND COPPER EXCEPT AT AREA #3B WHERE THE FLOOR HAS BEEN RECLEANED AND AND A RETEST WAS CONDUCTED 10/23/89. THE RESULTS ARE SUBMITTED WITH THIS ADDENDUM.

ACUREX Corporation

Environmental Systems Division

Acurex - ESD
Building 2

November 2, 1989
Acurex ID: 8910175
Client PO: 9424.013

Attention: Peter Brewer

Subject: Analysis of 2 Soil Samples, Received 10/26/89.

The samples were prepared by extraction in a citrate buffer for 48 hours. The resulting extract was filtered and acid digested using EPA Method 3010 and/or 3020 prior to analysis. The extract was then analyzed for requested metals using Inductively Coupled Argon Plasma spectroscopy or Atomic Absorption spectrophotometry. The resulting values are the soluble threshold limit concentrations for the requested metals. The results are presented in Table 1.

If you should have any technical questions, please contact the undersigned at (415)964-0844.

Approved by: Daniel L. Middleton

Daniel L. Middleton
Client Services Manager

These results were obtained by following standard laboratory procedures; the liability of Acurex Corporation shall not exceed the amount paid for this report. In no event shall Acurex be liable for special or consequential damages.

485 Clyde Avenue, P.O. Box 7044, Mountain View, CA 94039 (415) 961-5700 Telex: 026961 FAX: (415) 964-5145

Table 1. Metals Results

Acurex - Brewer Sample ID

Parameter	EPA Method	SITE 1 003320 mg/L	Spike % Recov	Dup Spike RPD	Method Blank mg/L	Method Detection Limit mg/L
Copper	200.7	2.1	83	8.7	<0.01	0.01

UNDER SUMP

Addendum II to

OLIN MESA CLOSURE PLAN

1130 TERRA BELLA AVENUE

MOUNTAIN VIEW, CA

III. REMEDIATION:

J. CONCRETE AND SOIL SEGREGATED FROM OTHER CONCRETE AND SOIL WERE ANALYZED (ATTACHMENT XI). THE UNIFORM HAZARDOUS WASTE MANIFEST FOR SHIPMENT IS ATTACHED. (ATTACHMENT XII).

ATTACHMENT XI

ACUREX Corporation

Environmental Systems Division

Acurex Brewer
Acurex ESD
Building 2

November 17, 1989
Acurex ID: 8911053
Client PO: 9424.013
Page 1 of 5

Attention: Peter Brewer

Subject: Analysis of 2 Soil Samples, Received 11/10/89

The samples were digested using EPA method 3050 prior to analysis. The digestate was analyzed for requested metals using Inductively Coupled Argon Plasma Spectroscopy or Atomic Absorption spectrophotometry following Test Methods for Evaluating Solid Waste (SW-846 3rd. Ed.,1986). The EPA method employed is listed alongside of the parameter. The results are presented in Table 1.

The samples were prepared by extraction in a citrate buffer for 48 hours. The resulting extract was filtered and acid digested using EPA Method 3010 and/or 3020 prior to analysis. The extract was then analyzed for requested metals using Inductively Coupled Argon Plasma spectroscopy or Atomic Absorption spectrophotometry. The resulting values are the soluble threshold limit concentrations for the requested metals. The results are presented in Table 2.

If you should have any technical questions, please contact the undersigned at (415)964-0844.

Approved by: _____
Daniel L. Middleton
Client Services Manager

These results were obtained by following standard laboratory procedures; the liability of Acurex Corporation shall not exceed the amount paid for this report. In no event shall Acurex be liable for special or consequential damages.

Table 1. Metals Results

Parameter	EPA Method	Aourex Olin Sample ID: North #1 13:45 mg/kg	South #2 13:45 mg/kg	Spike % Recov	Dup Spike RPD	METHOD BLANK mg/L
Copper	6010	2450	4150	114	10	<0.01

Table 1. Metals Results

Acurex Olin Sample ID

Parameter	EPA Method	METHOD DETECTION LIMIT ug/kg
Copper	6010	1.0

Table 2. Metals Results

Parameter	EPA Method	Aqurex Olin Sample ID: North #1 13:45 mg/L	South #2 13:45 mg/L	Spike % Recov	Dup Spike RPD	METHOD BLANK mg/L
Copper	200.7	246	402	86	7.9	<0.01

Table 2. Metals Results

Acurex Olin Sample ID

Parameter	EPA Method	METHOD DETECTION LIMIT mg/L
Copper	200.7	0.01

ACUREX ANALYTICAL LABORATORY
CHAIN OF CUSTODY

8911-053

Page 1 of 1

Acurex Request Number: _____

Company Name	Project Manager
Olin Mega	Brewer
Project Number:	**Project Name:**
9424.013	Soil Sample II

Sampled by: (Printed and Written Signature)

SAMPLE ID	DATE	TIME	MATRIX	SAMPLE LOCATION	NO. OF CONTAINERS	ANALYSIS: Cu	STLC: Cu	Other: By	REMARKS (preservation, special analytical or turnaround requirements, duplicate sample, etc)
004043	11-14-89	1315	Soil	North (#1)	1	X	X		Turnaround ASAP
004045	11-14-89	1315	Soil	South (#2)	1	X	X		Turnaround ASAP
									1 Week TAT w/ EC

Relinquished by (Signature)	Date/Time	Received by (Signature)	REMARKS: Hold Billing for Engin. Report See Debrosier and/or Brewer with Questions
Relinquished by (Signature)	Date/Time	Received by (Signature)	
Relinquished by (Signature): B Dobrat	Date/Time: ~~11/15~~ 11/20	Received for Laboratory by: (Signature): Martha Diaz	Date/Time: 11/20/89 | 1115 AM

ACUREX ANALYTICAL LABORATORY
405 Clyde Avenue, Bldg. 12
Mountain View, CA 94039
(415) 961-5700

11-15-89 15:17 FROM EB ENVIRONMENTAL TO 5155 P.03

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. (Form designed for use on elite (12-pitch) typewriter).

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. C|A|D|9|8|1|3|9|5|2|0|1|5 — Manifest Document No. 0|0|2|4|1|0

Page 1 of 1

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
OLIN MEGA CORP.
1130 TERRA BELLA AVENUE
MT VIEW, CA 94043

4. Generator's Phone (415) 961-6372

A. State Manifest Document Number 8944363

B. State Generator's ID H|A|H|0|3|6|0|2|3|0|1|7|5

5. Transporter 1 Company Name: UNIVERSAL ENGINEERING, INC

6. US EPA ID Number C|A|T|0|8|0|0|1|3|4|6|9

C. State Transporter's ID 002472

D. Transporter's Phone (707) 746-6699

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT
35251 OLD SKYLINE ROAD
KETTLEMAN CITY, CA 93239 C|A|T|0|1|0|8|6|4|6|1|1|1|7

10. US EPA ID Number

G. State Facility's ID C|A|T|0|1|0|8|6|4|6|1|1|1|7

H. Facility's Phone (800) 222-2964

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. COPPER CONTAMINATED SOILS/CONCRETE CA REGULATED ONLY California Regulated Waste Only	0 1 1	6	D M	0 1 5 2 0 0	P State 181 EPA/Other Exempt
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above
a. b.
c. d.

15. Special Handling Instructions and Additional Information
(a) PROFILE SFO J 17951 COPPER CONTAMINATED SOIL/CONCRETE

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: CURT M. RICHARDS — Signature: Curt M. Richards — Month 11 Day 21 Year 89

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: TROY WILLIAMS — Signature: Troy Williams — Month 11 Day 21 Year 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space
(6) CAT080013469 (10) CAT 000646117 DATE 12/14/89

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Month Day Year

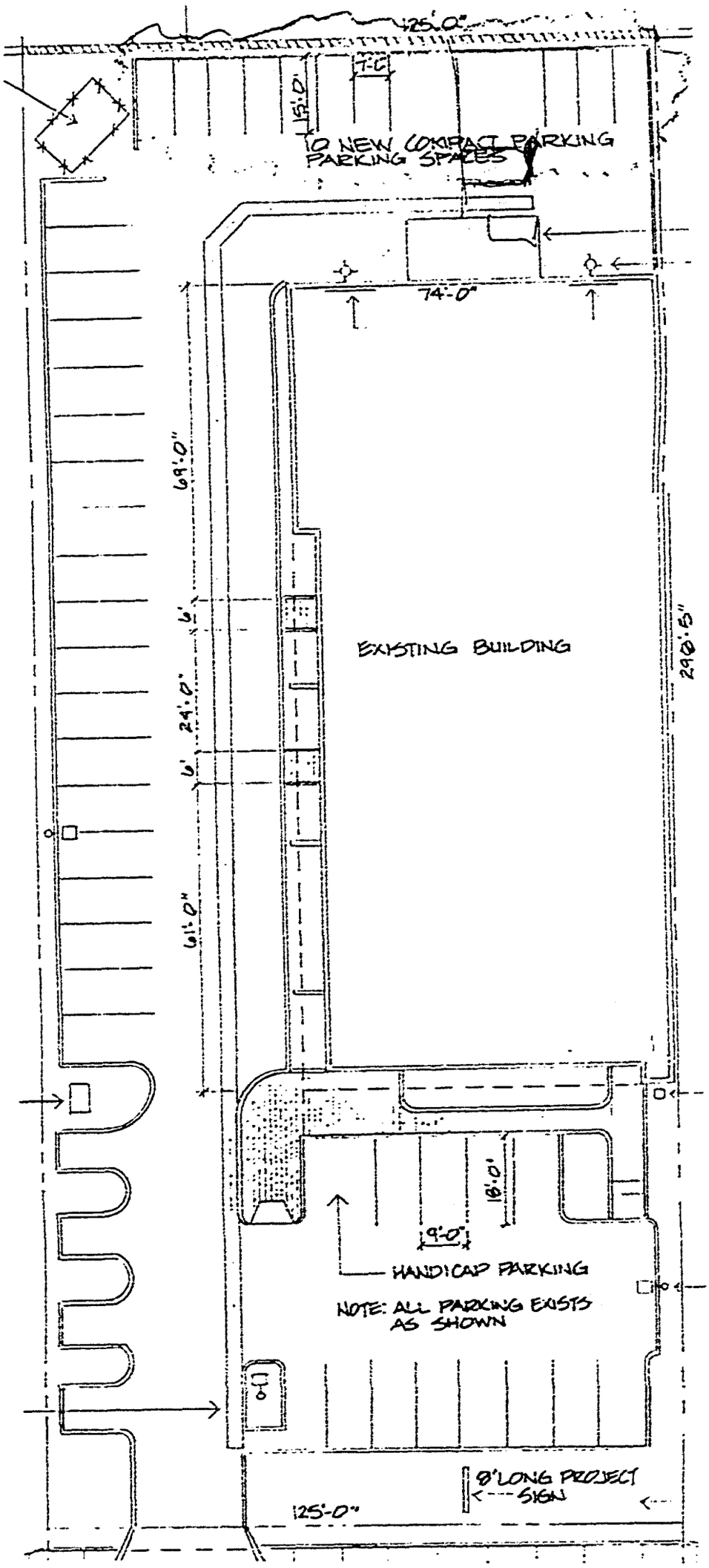
GENERATOR — TRANSPORTER — FACILITY

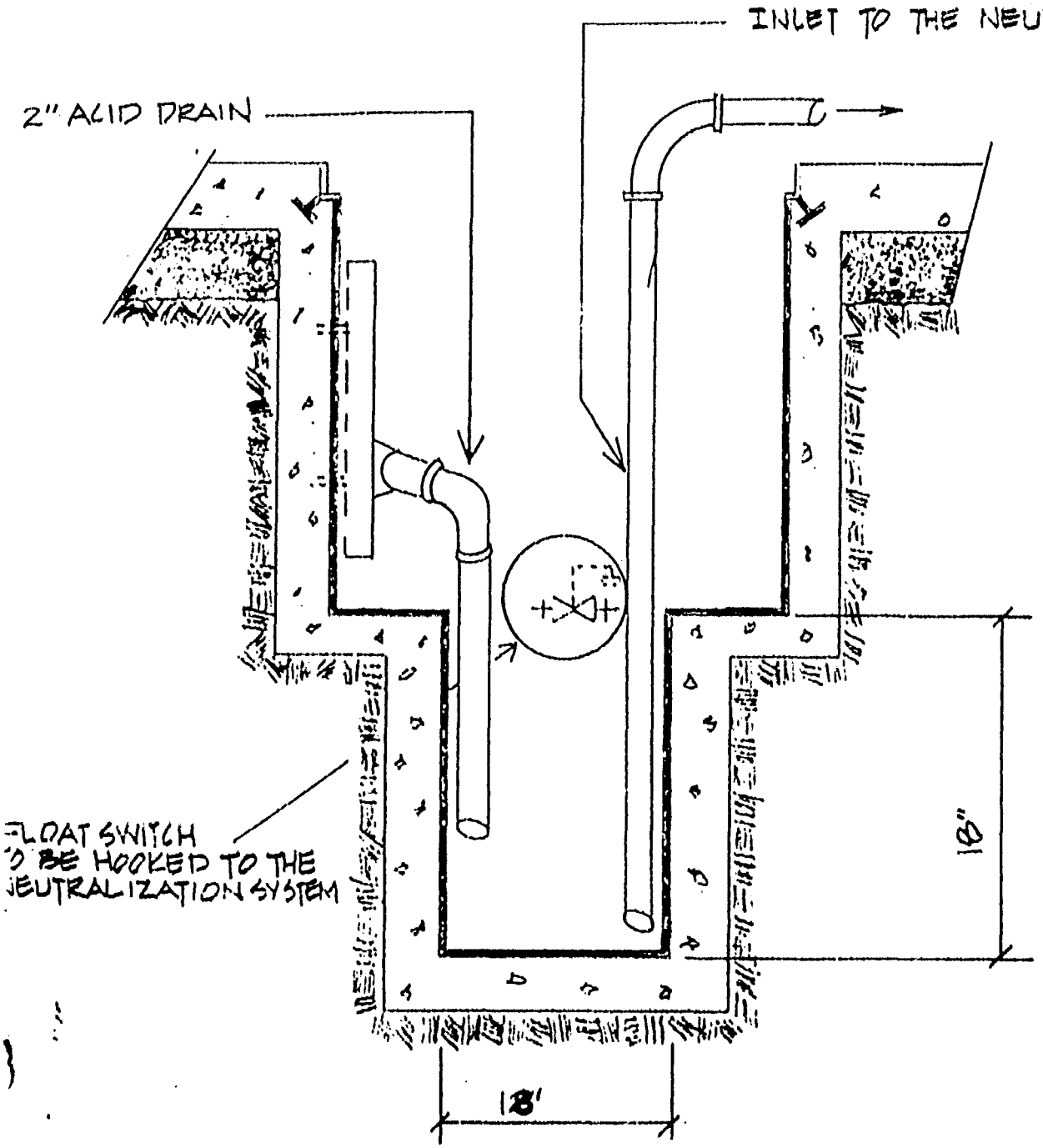
IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; IN CALIFORNIA CALL 1-800-852-7550

DHS 8022 A (1/88)
EPA 8700—22
(Rev. 9-88) Previous editions are obsolete.

Do Not Write Below This Line

Blue: GENERATOR SENDS THIS COPY TO DOHS WITHIN 30 DAYS
To: P.O. Box 400, Sacramento, CA 95812-0400

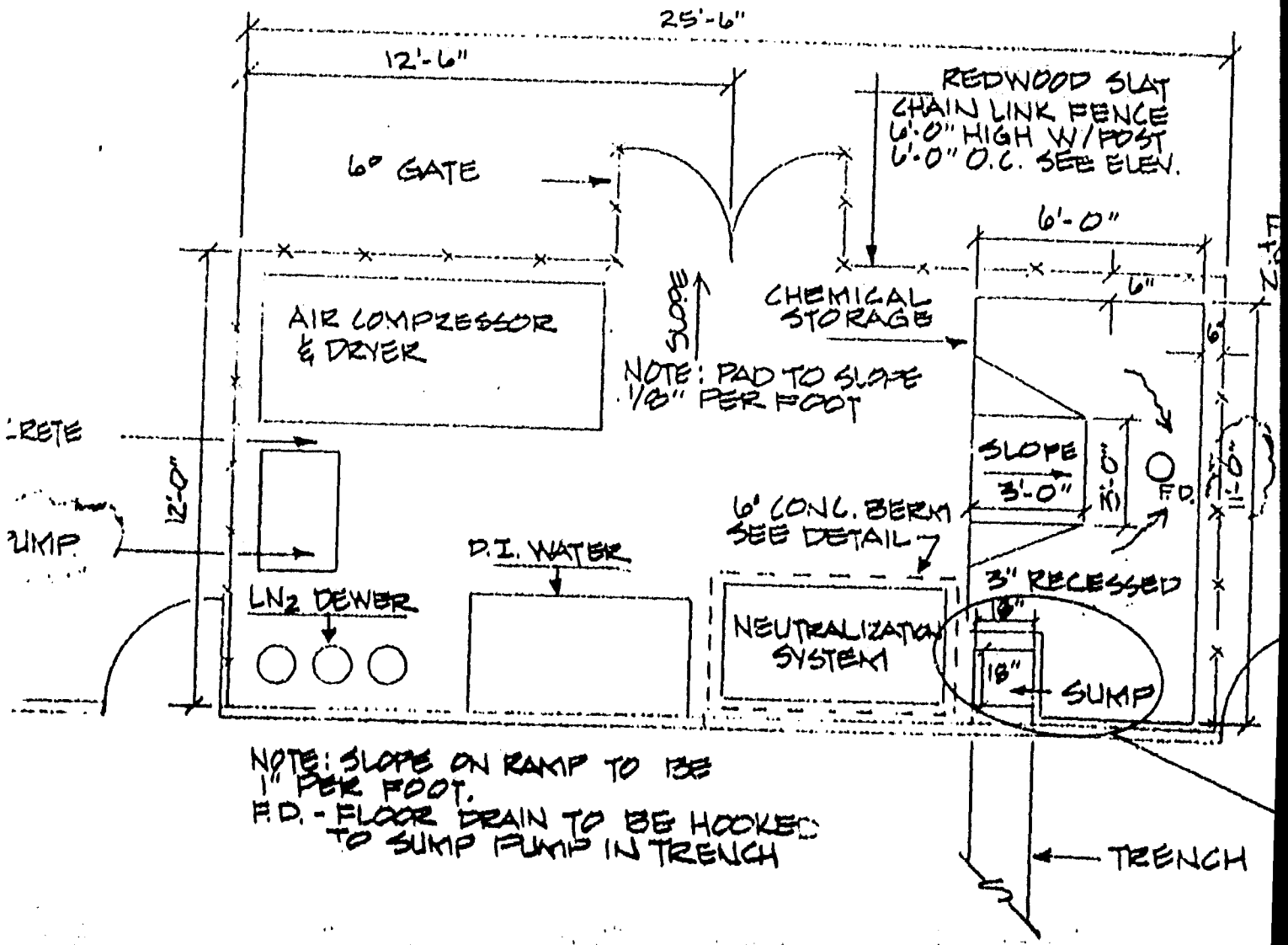

125'-0"
15'-0"
7'-0"
10 NEW COMPACT PARKING
PARKING SPACES
74'-0"
69'-0"
6'
24'-0"
6'
61'-0"
EXISTING BUILDING
290'-6"
18'-0"
9'-0"
HANDICAP PARKING
NOTE: ALL PARKING EXISTS
AS SHOWN
8'LONG PROJECT
SIGN
125'-0"



SUMP DETAIL

NO SCALE

NOTE: FOR TRENCH DETAIL SEE SHEET # T-1 DETAIL 2



NOTE: SLOPE ON RAMP TO BE 1" PER FOOT.
F.D. - FLOOR DRAIN TO BE HOOKED TO SUMP PUMP IN TRENCH

CITY OF MOUNTAIN VIEW

FIRE DEPARTMENT
Telephone: (415) 966-6378

1000 VILLA STREET
MOUNTAIN VIEW, CA 94041

UNDERGROUND TANKS
OUT OF SERVICE AND REMOVAL PERMIT
(Revised May, 1989)

Complete this application and submit all 9 pages, along with applicable fees to: Mountain View Fire Department, Hazardous Materials Division, 1000 Villa Street, Mountain View, CA 94041. Upon approval, a Demolition Permit will be issued to the responsible contractor. Any questions regarding this form and/or fees should be directed to the Hazardous Materials Division at (415) 966-6378.

Tank Location Address: 1130 Terra Bella Avenue

Tank Location Business Name: 1130 Terra Bella Avenue

Generator EPA ID Number: CAD 981395205
(If Generator does not have, call (916) 324-1781 to obtain one).

Generator Hazardous Waste Tax Account Number: HAHQ 36023875
(If Generator does not have, call (916) 445-2216 to obtain one).

Property Owner Name/Representative: S & R Development/A.J. Snider

Address: 3355 Edward Ave., Santa Clara Phone No.: (408) 982-0800

Responsible Contractor: Holvick Construction

Contractor Phone No.: (408) 744-1400 License No.: 170234

Applicant: Olin Mesa Corp. Phone No.: (408) 982-2234

Mailing Address: 3500 Garrett Drive, Santa Clara, CA 95054

Tank(s) Description: Submit a drawing indicating property lines, any buildings, and tank(s) location(s).

Volume: 4 Cu Ft. Contents: Wastewater Construction: Concrete

Volume: _____ Contents: _____ Construction: _____

Volume: _____ Contents: _____ Construction: _____

Volume: _____ Contents: _____ Construction: _____

Soil Sampling By: Acurex Corp. Phone No.: 961-5700

Laboratory Analysis By: Acurex Corp. Phone No.: 961-5700

Tank Hauler (include a name and specific address): N/A

Will tank(s) be cleaned on-site? (YES or NO) N/A

If "YES", the effluent is classified as a Hazardous Waste by the Department of Transportation (DOT) and can only be transported by a licensed Hazardous Waste Hauler to a licensed Treatment, Storage, and Disposal (TSD) Facility.
Hazardous Waste Transporter EPA ID No.: _____

If "NO", the tank is classified as a Hazardous Waste by the Department of Transportation (DOT) and can only be transported by a licensed Hazardous Waste Hauler to a licensed Treatment, Storage, and Disposal (TSD) Facility.
Hazardous Waste Transporter EPA ID No.: _____

Destination of Tank(s) (include name and specific address): N/A

Destination EPA ID No.: N/A

Destination of Tank Cleaning Effluent (if applicable): N/A

Destination EPA ID No.: N/A

I have read and understand the permit conditions attached and declare that the permit application information is correct. All provisions of the laws and ordinances governing hazardous materials will be complied with whether specified herein or not.

Curt M. Richards
Name (please print or type)

Curt M. Richards
Signature

10/03/89
Date

PERMIT CONDITIONS/PROCEDURES

I. TANK PREPARATION PROCEDURES

1. An inspection must be completed by the Fire Department before the tank(s) may be removed from the excavation. Appointments must be made 48 hours in advance. Call (415) 966-6378 to arrange for an inspection appointment. The Demolition Permit must be displayed at the job site.

2. Arrange for a State Certified laboratory to analyze the required soil sample(s) and for sampling by a qualified independent third party.

3. Tank(s) shall be emptied of all liquid product.

4. Render tank(s) inert with a minimum 15 pounds of dry ice per each 1,000 gallons of tank volume. Tank oxygen level must be reduced to less than 10 percent. Keep the dry ice sales receipts available at the tank site for the Inspector to review.

5. Cap all tank(s) opening(s) except for vent pipe(s) and allow a minimum 2 hours for oxygen displacement. Excavation and pipe removal may proceed during this period, but the tank(s) CANNOT be removed from the excavation.

6. Begin excavation to expose tank and pipelines for removal.

7. Remove all pipelines at the tank and cap or plug each tank opening immediately after the pipeline is disconnected. Leave a 1/8" to 3/8" pressure relief hole at the top of the tank for carbon dioxide venting.

8. After the 2-hour period for oxygen displacement has passed, call (415) 966-6378 for an inspection by the Fire Department.

II. REMOVAL PROCEDURES

1. Tank removal may commence only after the Fire Department Inspector has given his approval.

2. Remove the tank(s) from the excavation and load on a vehicle(s). Position the tank(s) so the pressure relief hole is close to the top of the tank.

3. Check tank(s) for leaks or holes, and if present, seal immediately.

4. Properly transport the tank(s) outside of the City limits to the approved location as follows:

   a. If tanks ARE NOT cleaned on-site, only a licensed Hazardous Waste hauler can transport them away from the

site. Make sure the tank transporter has a Transporter EPA ID Number. The tank must be taken to a licensed Treatment, Storage, and Disposal (TSD) Facility.

b. If tanks ARE cleaned on-site, the cleaning effluent can only be transported by a licensed Hazardous Waste Hauler. Make sure the effluent transporter has a Transporter EPA ID Number. The effluent must be taken to a licensed Treatment, Storage, and Disposal (TSD) Facility. In this case, the tank transporter need not be a Hazardous Waste hauler.

c. In either case, the shipper (i.e. tank owner) must complete a Hazardous Waste Manifest to transport the tank or effluent. The manifest must be used instead of the standard Bill of Lading document.

5. Have the soil sample(s) taken and analyzed as explained below.

6. Secure the area around the tank excavation site until soil analyses are complete. At that time, the FIRE DEPARTMENT will notify you as to whether the excavation may be backfilled or further soil removal will be required.

7. Have the monitoring well(s) destroyed as required. When an abandoned well is destroyed, a permit from SCVWD is required.

8. An additional $40 per hour will be charged for inspection time exceeding the allowable time specified in the Demolition Permit (job card).

III. SOIL SAMPLING PROCEDURES

1. A minimum of __/__ representative soil samples shall be taken from the area beneath the tank(s). (_____per tank). Additional samples:_____
_____.
(To be completed by the Fire Department).

2. All sampling shall be completed by a qualified independent third party to include delivery of the samples to a State Certified laboratory. A MOUNTAIN VIEW CHAIN OF CUSTODY FORM MUST be maintained throughout the sample transfer process. (This form is attached).

3. Soil samples MAY NOT be composited by the laboratory and analyzed together.

4. Sampling protocol shall employ methods acceptable to the RWQCB, SCVWD, and MV Fire Dept. These shall include: soil sample collection in brass or stainless steel tubes, taping, capping, and labeling of tubes, sample storage in ice, and elimination of head space in all water sample containers.

5. Sample analysis shall employ the EPA STANDARD PROCEDURES AND QUANTITATION/REPORTING LIMITS SPECIFIED IN THE ATTACHMENT TO THIS APPLICATION.

6. Laboratory analysis shall test for:

_____ GC scan for Total Petroleum Hydrocarbons (Gasoline), and BTX (analyzed individually)

_____ GC scan for Total Petroleum Hydrocarbons (Diesel), and BTX (analyzed individually)

_____ GC scan for Total Oil and Grease, Total Petroleum Hydrocarbons (High Boiling Hydrocarbons), Volatile Organic Compounds (EPA 8240 or 8010 and 8020 with ten largest peaks identified).

_____ GC scan for Solvents: _____

__X__ pH, Heavy Metals: Copper

_____ _____

(To be completed by Fire Department)

7. A site drawing showing tank locations, sampling locations, and sampling depths must be included in all submitted laboratory analysis.

8. **The applicant shall have a copy of ALL LABORATORY TEST RESULTS, MOUNTAIN VIEW CHAIN OF CUSTODY RECORD, AND SITE DRAWING mailed DIRECTLY to:**

Mountain View Fire Department
Hazardous Materials Division
1000 Villa Street
Mountain View, CA 94041

Underground tank removals are not considered complete unless we receive a hard copy of all items listed above.

UNDERGROUND TANK REMOVAL AUTHORIZATION

When properly validated, this is an authorized permit subject to the conditions indicated above.

****This Permit Expires Sixty (60) Days From Date Of Authorization****

Authorized By

10/4/89
**Date

CITY OF MOUNTAIN VIEW

CHAIN OF CUSTODY RECORD

PROJECT NO.	SITE NAME & ADDRESS
WITNESSING AGENCY / INSPECTOR NAME / DATE	

ID NO.	DATE	TIME	SOIL	WATER	SAMPLING LOCATION	TPH (Gasoline) & B, T, X & E	TPH (Diesel) & B, T, X & E	Total Oil & Grease	Halogenated HC's	B, T, X & E	Heavy Metals		REMARKS

ANALYSES REQUESTED (1)

(1) See attached "Table 2" for specific analysis method.

Relinquished by: *(Signature)*	Date/Time	Received by: *(Signature)*
Relinquished by: *(Signature)*	Date/Time	Received by: *(Signature)*
Relinquished by: *(Signature)*	Date/Time	Received by: *(Signature)*
Relinquished by: *(Signature)*	Date/Time	Rec'd for Laboratory by: *(Signature)*

The following MUST BE completed by the laboratory accepting samples for analysis:

1. Have all samples received for analysis been stored in ice?
2. Will samples remain refrigerated until analyzed?
3. Did any samples received for analysis have head space?
4. Were samples in appropriate containers and properly packaged?

Signature _____ Title _____ Date _____

Rev: 12-88

TABLE #2
REVISED 6 OCTOBER 1988

RECOMMENDED MINIMUM VERIFICATION ANALYSES FOR UNDERGROUND TANK LEAKS

HYDROCARBON LEAK	SOIL ANALYSIS		WATER ANALYSIS	
Unknown Fuel	TPH G	GCFID(5030)	TPH G	GCFID(5030)
	TPH D	GCFID(3550)	TPH D	GCFID(3510)
	BTX&E	8020 or 8240	BTX&E	602 or 624
Leaded Gas	TPH G	GCFID(5030)	TPH G	GCFID(5030)
	BTX&E	8020 or 8240	BTX&E	602 or 624
	---Optional---		TEL	DHS-LUFT
	TEL	DHS-LUFT	EDB	DHS-AB1803
	EDB	DHS-AB1803		
Unleaded Gas	TPH G	GCFID(5030)	TPH G	GCFID(5030)
	BTX&E	8020 or 8240	BTX&E	602 or 624
Diesel	TPH D	GCFID(3550)	TPH D	GCFID(3510)
	BTX&E	8020 or 8240	BTX&E	602 or 624
Jet Fuel	TPH D	GCFID(3550)	TPH D	GCFID(3510)
	BTX&E	8020 or 8240	BTX&E	602 or 624
Kerosene	TPH D	GCFID(3550)	TPH D	GCFID(3510)
	BTX&E	8020 or 8240	BTX&E	602 or 624
Fuel Oil	TPH D	GCFID(3550)	TPH D	GCFID(3510)
	BTX&E	8020 or 8240	BTX&E	602 or 624
Chlorinated Solvents	CL HC	8010 or 8240	CL HC	601 or 624
	BTX&E	8020 or 8240	BTX&E	602 or 624
Non Chlorinated Solvents	TPH D	GCFID(3550)	TPH D	GCFID(3510)
	BTX&E	8020 or 8240	BTX&E	602 or 624
Waste Oil or Unknown	TPH G	GCFID(5030)	TPH G	GCFID(5030)
	TPH D	GCFID(3550)	TPH D	GCFID(3510)
	O & G	503D&E	O & G	503A&E
	BTX&E	8020 or 8240	BTX&E	602 or 624
	CL HC	8010 or 8240	CL HC	601 or 624

ALL ANALYSES MUST SPECIFY THE FOLLOWING QUANTITATION/REPORTING LIMITS AS A MINIMUM:

Analysis	Soil	Water
TPH G	1.0 ppm	50.0 ppb
TPH D	10.0 ppm	50.0 ppb
BTX&E	5.0 ppb	0.5 ppb
O & G	50.0 ppm	5.0 ppm

FOR OFFICE USE ONLY

Inspection Start Time: 1:30 pm End: 2:30 pm 10/10/89

Chain of Custody Record Attached: _____

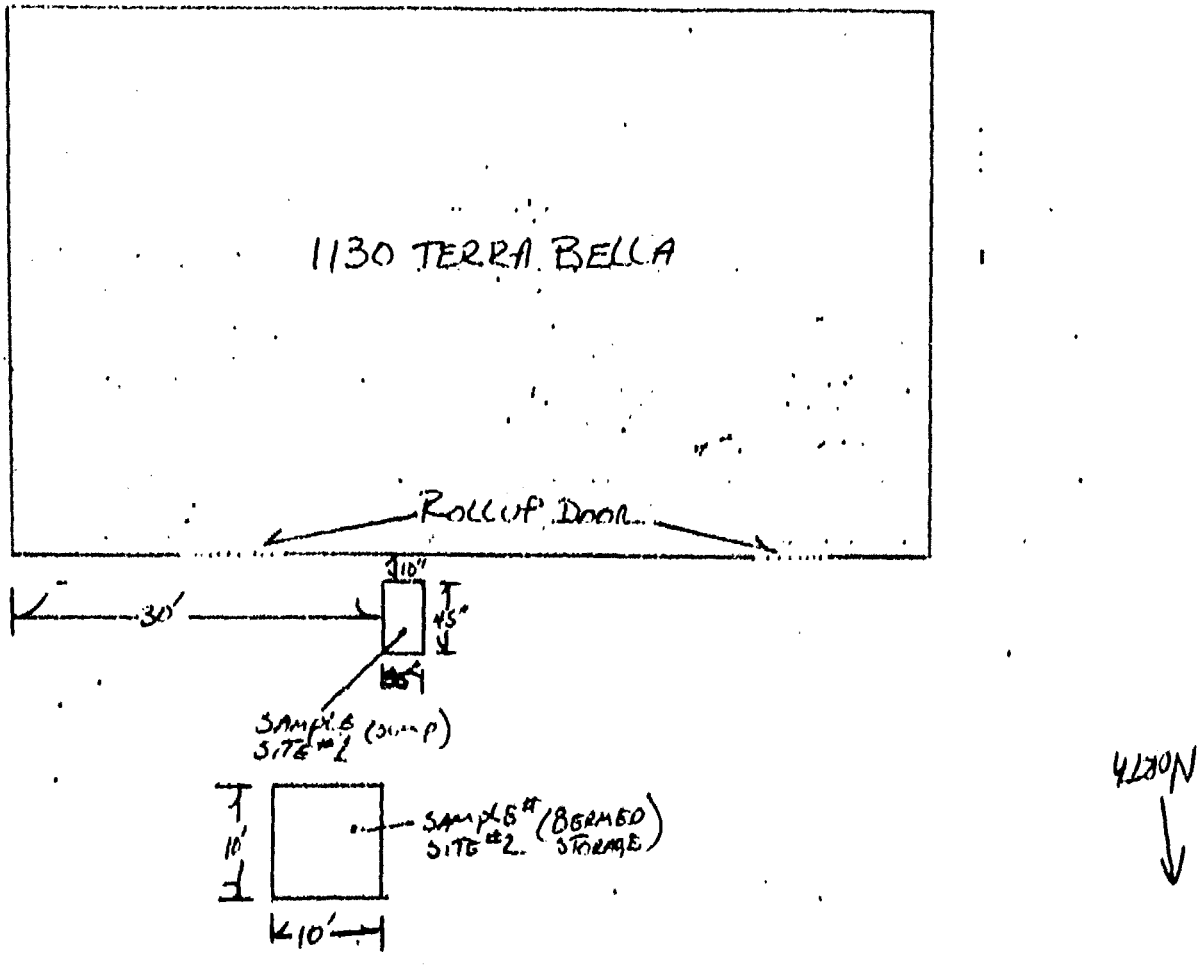
Hazardous Waste Manifest Number: N/A

Applies to: _____ Tank _____ Effluent

Hazardous Waste State Transporter ID No. (on truck): _____

Facility Map (include tank positions, fill ends, cross streets):

TERRA BELLA AVE.



Tank # 1 Volume Unk Const. Concrete Contents Waste Water
Oxygen Content N/A Length 85" Diameter 35"
Bottom of Tank at 70" feet. Soil samples taken at 75" feet.

Tank Condition No signs of cracks visible, No cracks visible

Soil Condition Wet, Clayey, Dark-brown

Tank # _____ Volume _____ Const. _____ Contents _____
Oxygen Content _____ Length _____ Diameter _____
Bottom of Tank at _____ feet. Soil samples taken at _____ feet.

Tank Condition _____

Soil Condition _____

Tank # _____ Volume _____ Const. _____ Contents _____
Oxygen Content _____ Length _____ Diameter _____
Bottom of Tank at _____ feet. Soil samples taken at _____ feet.

Tank Condition _____

Soil Condition _____

Tank # _____ Volume _____ Const. _____ Contents _____
Oxygen Content _____ Length _____ Diameter _____
Bottom of Tank at _____ feet. Soil samples taken at _____ feet.

Tank Condition _____

Soil Condition _____

Tank # _____ Volume _____ Const. _____ Contents _____
Oxygen Content _____ Length _____ Diameter _____
Bottom of Tank at _____ feet. Soil samples taken at _____ feet.

Tank Condition _____

Soil Condition _____

Additional Comments _____

_____

_____

Tom Reynolds 10/10/89
INSPECTOR DATE

bscreen/hmremove
Rev 050787

TABLE #2
REVISED 6 OCTOBER 1988

RECOMMENDED MINIMUM VERIFICATION ANALYSES FOR UNDERGROUND TANK LEAKS

HYDROCARBON LEAK	SOIL ANALYSIS		WATER ANALYSIS	
Unknown Fuel	TPH G	GCFID(5030)	TPH G	GCFID(5030)
	TPH D	GCFID(3550)	TPH D	GCFID(3510)
	BTX&E	8020 or 8240	BTX&E	602 or 624
Leaded Gas	TPH G	GCFID(5030)	TPH G	GCFID(5030)
	BTX&E	8020 or 8240	BTX&E	602 or 624
	---Optional---		TEL	DHS-LUFT
	TEL	DHS-LUFT	EDB	DHS-AB1803
	EDB	DHS-AB1803		
Unleaded Gas	TPH G	GCFID(5030)	TPH G	GCFID(5030)
	BTX&E	8020 or 8240	BTX&E	602 or 624
Diesel	TPH D	GCFID(3550)	TPH D	GCFID(3510)
	BTX&E	8020 or 8240	BTX&E	602 or 624
Jet Fuel	TPH D	GCFID(3550)	TPH D	GCFID(3510)
	BTX&E	8020 or 8240	BTX&E	602 or 624
Kerosene	TPH D	GCFID(3550)	TPH D	GCFID(3510)
	BTX&E	8020 or 8240	BTX&E	602 or 624
Fuel Oil	TPH D	GCFID (3550)	TPH D	GCFID(3510)
	BTX&E	8020 or 8240	BTX&E	602 or 624
Chlorinated Solvents	CL HC	8010 or 8240	CL HC	601 or 624
	BTX&E	8020 or 8240	BTX&E	602 or 624
Non Chlorinated Solvents	TPH D	GCFID(3550)	TPH D	GCFID(3510)
	BTX&E	8020 or 8240	BTX&E	602 or 624
Waste Oil or Unknown	TPH G	GCFID(5030)	TPH G	GCFID(5030)
	TPH D	GCFID(3550)	TPH D	GCFID(3510)
	O & G	503D&E	O & G	503A&E
	BTX&E	8020 or 8240	BTX&E	602 or 624
	CL HC	8010 or 8240	CL HC	601 or 624

ALL ANALYSES MUST SPECIFY THE FOLLOWING QUANTITATION/REPORTING LIMITS AS A MINIMUM:

Analysis	Soil	Water
TPH G	1.0 ppm	50.0 ppb
TPH D	10.0 ppm	50.0 ppb
BTX&E	5.0 ppb	0.5 ppb
O & G	50.0 ppm	5.0 ppm

EXPLANATION FOR TABLE #2: MINIMUM VERIFICATION ANALYSIS

1. TOTAL PETROLEUM HYDROCARBONS (TPH) as gasoline (G) and diesel (D) ranges (volatile and extractible, respectively) are to be analyzed and characterized by GC FID with a fused capillary column. They are to be prepared by EPA method 5030 for volatile hydrocarbons, or extracted from soil by sonication using 3550 methodology, or extracted from water by liquid-liquid extraction using methodology 3510 for extractible hydrocarbons.

2. TETRAETHYLLEAD (TEL) may be analyzed as total lead. However, a confirming analysis must be completed using a soil sample at the same soil depth in another borehole, or for water, from an upgradient well that is not contaminated with hydrocarbons.

3. CHLORINATED HYDROCARBONS (CL HC) are analyzed by EPA method 8010 or 601, and requires second column confirmation, or by method 8240 or 624, and requires identification of the ten highest peaks not on the routine list.

4. BENZENE, TOLUENE, XYLENE AND ETHYLBENZENE (BTX&E) are analyzed by EPA method 8020 or 602, and requires second column confirmation, or by method 8240 or 624.

5. OIL AND GREASE (O & G) may be used when heavy, straight chain hydrocarbons may be present. Infrared analysis by method 418.1 may also be acceptable for O & G if proper standards are used.

6. To avoid false positive detection of benzene, benzene-free solvents are to be used. Fused capillary columns are preferred to packed columns; a packed column may be used as a "first cut" with "dirty" samples or once the hydrocarbons have been characterized and proper QA/QC is followed.

7. For DRINKING WATER SOURCES, EPA recommends that the 500 series for volatile organics be used in preference to the 600 series because the detection limits are lower and the QA/QC is better.

8. For all analyses on Table #2, appropriate standards are to be used for the material stored in the tank. For instance, seasonally, there may be five different jet fuel mixtures to be considered.

9. Other methodologies are continually being developed (such as cryogenic focusing), and as they are accepted by EPA and DHS, they may also be used pending Regional Board prior approval.

FOR OFFICE USE ONLY

Inspection Start Time: 1:30 pm End: 2:30 pm 10/10/89

Chain of Custody Record Attached: _____

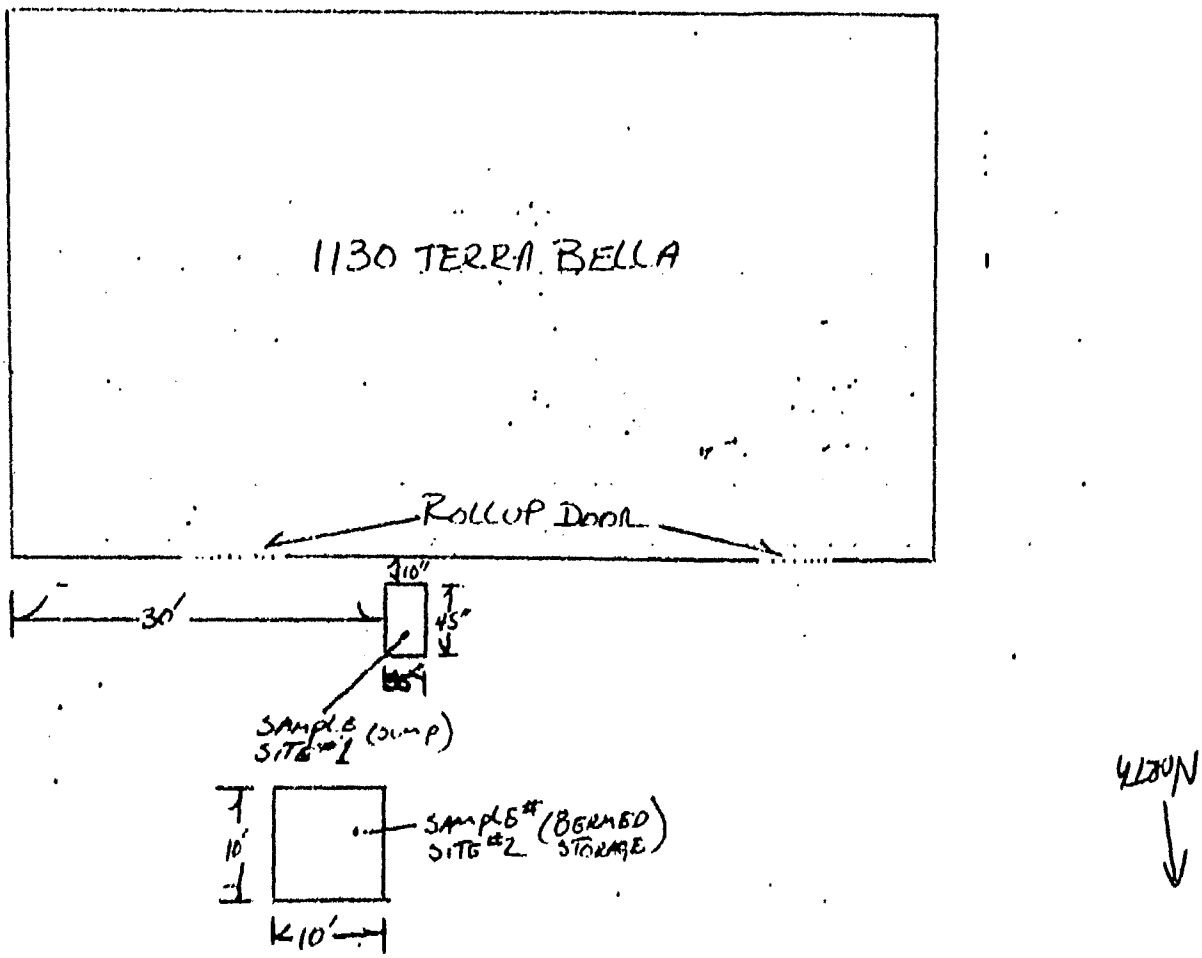
Hazardous Waste Manifest Number: N/A

Applies to: _____ Tank _____ Effluent

Hazardous Waste State Transporter ID No. (on truck): _____

Facility Map (include tank positions, fill ends, cross streets):

TERRA BELLA AVE.



Tank # 1 Volume Unk. Const. Concrete Contents Waste Water
Oxygen Content N/A Length 45" Diameter 35"
Bottom of Tank at 70" feet. Soil samples taken at 75" feet.

Tank Condition No cracks or chips visible, No Corrosion visible

Soil Condition Wet, Clayey, Dark Brown

Tank # _____ Volume _____ Const. _____ Contents _____
Oxygen Content _____ Length _____ Diameter _____
Bottom of Tank at _____ feet. Soil samples taken at _____ feet.

Tank Condition _____

Soil Condition _____

Tank # _____ Volume _____ Const. _____ Contents _____
Oxygen Content _____ Length _____ Diameter _____
Bottom of Tank at _____ feet. Soil samples taken at _____ feet.

Tank Condition _____

Soil Condition _____

Tank # _____ Volume _____ Const. _____ Contents _____
Oxygen Content _____ Length _____ Diameter _____
Bottom of Tank at _____ feet. Soil samples taken at _____ feet.

Tank Condition _____

Soil Condition _____

Tank # _____ Volume _____ Const. _____ Contents _____
Oxygen Content _____ Length _____ Diameter _____
Bottom of Tank at _____ feet. Soil samples taken at _____ feet.

Tank Condition _____

Soil Condition _____

Additional Comments _____

_____

_____

Tank Ruggi 10/10/89
INSPECTOR DATE

bscreen/hmremove
Rev 050787

OLIN MESA CLOSURE PLAN
1130 TERRA BELLA AVENUE
MOUNTAIN VIEW, CA

I. INTRODUCTION:

A. 1130 TERRA BELLA AVENUE, MOUNTAIN VIEW, CA.

B. COMPANY HEADQUARTERS, RESEARCH & DEVELOPMENT, AND MANUFACTURING FACILITY FOR TAB (TAPE AUTOMATED BONDING) TAPE FROM MARCH, 1983 TO SEPTEMBER, 1989.

C. 1. MESA TECHNOLOGY (NOW OLIN MESA CORP.) OCCUPIED THIS BUILDING IN MARCH, 1983 AS A COMPANY HEADQUARTERS, TAB TAPE RESEARCH & DEVELOPMENT AND MANUFACTURING FACILITY. THE BUILDING WAS CONSTRUCTED IN MAY, 1982 BY PEERY AND ARRILAGA AND CALLED "SHARP INDUSTRIAL PARK." FROM AVAILABLE RECORDS, IT APPEARS THAT BETWEEN 1972 AND 1982 THE PROPERTY WAS A PLASTER CONTRACTORS YARD AND PRIVATE RESIDENCE.

2. IN SEPTEMBER 1988, AQUA TERRA TECHNOLOGIES COMPLETED A PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT AND GROUNDWATER INVESTIGATION FOR SNIDER PROPERTIES. NO DETECTABLE CONCENTRATIONS OF SEMIVOLATILE ORGANIC COMPOUNDS WERE REPORTED. TRICHLOROETHYLENE (TCE) AND TRANS-1,2-DICHLOROETHYLENE (T-1,2-DCE) WERE DETECTED. OLIN MESA USES RESEARCH QUANTITIES OF TCE AND HAS NEVER USED DCE. BECAUSE TCE AND DCE WERE DETECTED IN THE UPGRADIENT WELL, IT APPEARS THESE COMPOUNDS ORIGINATED FROM AN OFFSITE SOURCE. A REVIEW OF THE DATA INDICATES TRACE CONCENTRATIONS OF METALS WERE DETECTED DUE TO PRESENCE OF SOIL PARTICLES IN THE SAMPLES. THE "PRELIMINARY ENVIRONMENTAL ASSESSMENT AND GROUNDWATER INVESTIGATION FOR PROPERTY LOCATED AT 1130 TERRA BELLA AVENUE, MOUNTAIN VIEW, CA, ATT PROJECT #859" IS ATTACHED (ATTACHMENT I).

II. FINAL SITE INSPECTION AND ASSESSMENT:

A. ALL HAZARDOUS MATERIALS ON SITE WERE TRANSPORTED TO OLIN MESA'S NEW LOCATION AT 3500 GARRETT DRIVE, SANTA CLARA, CA, BY DEVINCENZI TRUCKING COMPANY, SAN FRANCISCO, CA, ON OCTOBER 3, 1989. THE

SHIPPING LIST IS ATTACHED (ATTACHMENT II). ALL HAZARDOUS WASTES WERE SHIPPED TO CHEMICAL WASTE MANAGEMENT, KETTLEMEN CITY, CA, BY UNIVERSAL ENGINEERING INC., (SPENT LT-26, COPPER CONTAMINATED INERTS, SPENT NICKEL BATH AND WASTE STRIPPER), SOLVENT SERVICES, SAN JOSE, CA, (SPENT SOLVENT), CPI INORGANICS, UNION CITY, CA, BY ADMIRAL TRANSPORTATION, (WASTE AMMONIUM HYDROXIDE) OR AMERICAN CHEMICAL & REFINING, SOUTH EL MONTE, CA, (CYANIDE GOLD SOLUTION). ALL UNIFORM HAZARDOUS WASTE MANIFESTS FOR THOSE SHIPMENTS ARE ATTACHED (ATTACHMENT III).

B. A MAP IDENTIFYING ALL CHEMICAL USE AND STORAGE AREAS IS ATTACHED, AS WELL AS, THE QUANTITIES (ATTACHMENT IV).

C. HAZARDOUS MATERIALS USE AND STORAGE AREAS WERE CLEANED. THE MANUFACTURING CONCRETE FLOOR AND TRENCH WERE SAND OR BEAD BLASTED.

D. ALL HAZARDOUS CHEMICALS WERE MOVED OR PROPERLY DISPOSED PRIOR TO VACATING THE FACILITY. ALL PROCESS EQUIPMENT, EXCEPT SOLVENT AND GOLD CONTAINING EQUIPMENT, WAS CLEANED, FLUSHED AND DRAINED TO THE NEUTRALIZATION SYSTEM. SOLVENT AND GOLD CONTAINING EQUIPMENT WERE FLUSHED AND DRUMMED FOR HAZARDOUS WASTE DISPOSAL.

E. A WIPE SAMPLE ANALYSIS WAS PERFORMED ACCORDING TO THE WIPE SAMPLE PLAN (ATTACHMENT V). THE RESULTS OF THE INITIAL ANALYSIS (ATTACHMENT VI) AND FINAL ANALYSIS (ATTACHMENT VII) ARE THE FOLLOWING:

BACKGROUND SAMPLES

COPPER	53.7	218	121	AVE: 130.9
ARSENIC	<0.5			
NICKEL	5.8			
CYANIDES, TOTAL	<2.0			
VOA	SEE ATTACHMENT VI			

AREA SAMPLES

	INITIAL	FINAL
AREA #1		
COPPER	149	23
NICKEL	5.7	NO RETEST

AREA #2		
COPPER	739	CONCRETE REMOVED
NICKEL	50.2	CONCRETE REMOVED
AREA #3A		
COPPER	297	7.2
CYANIDE	<2.0	NO RETEST
NICKEL	239	ND
ARSENIC	<0.5	NO RETEST
AREA #3B		
COPPER	228	55
CYANIDE	<2.0	NO RETEST
NICKEL	373	76***
		A RETEST UNDERWAY 10//23
ARSENIC	<0.5	NO RETEST
AREA #3C		
COPPER	86.1	24
CYANIDE	<2.0	NO RETEST
NICKEL	21.6	ND
ARSENIC	<0.5	NO RETEST
AREA #5		
COPPER	507	22
AREA #6		
VOA	SEE ATTACHMENT VI	NO RETEST
AREA #7		
COPPER	2960	32
AREA #8		
COPPER	1370	CONCRETE REMOVED
AREA #9		
COPPER	306	86

AREA #10		
pH	7	NO RETEST
	ATTACHMENT VIII	
AREA #11		
pH	7	NO RETEST
	ATTACHMENT VIII	

III. REMEDIATION:

A. ALL ROOF EXHAUST FANS, EXCEPT THE CHEMICAL HOOD EXHAUST FAN IN THE COATING ROOM, WERE REMOVED AND RELOCATED TO THE NEW FACILITY. THE LANDLORD REQUESTED THAT THIS EXHAUST SYSTEM NOT BE REMOVED. ALL PROCESS DUCTS WERE FLUSHED AND DRAINED TO THE NEUTRALIZATION SYSTEM PRIOR TO MOVING OR DISPOSAL. A LITMUS PAPER TEST WAS PERFORMED TO DETERMINE PH. A PH OF 7.0-8.0 WAS CONSIDERED ACCEPTABLE. ALL FLASHINGS FOR REMOVED EQUIPMENT WERE REMOVED AND THE OPENINGS CLOSED AND RENDERED WATERTIGHT.

B. ALL AIR COMPRESSORS WERE REMOVED. ALL PIPING, EXCLUDING CITY WATER, SANITARY AND NITROGEN LINES, WAS REMOVED. ALL PROCESS PIPING WAS FLUSHED IN PLACE AND DRAINED TO THE NEUTRALIZATION SYSTEM PRIOR TO REMOVAL. A LITMUS PAPER TEST WAS PERFORMED TO DETERMINE PH. A PH OF 7.0-8.0 WAS CONSIDERED ACCEPTABLE. THE DI WATER SYSTEM WAS REMOVED BY POLYMETRICS. THE NEUTRALIZATION SYSTEM WAS FLUSHED AND DRAINED TO THE SANITARY SEWER PRIOR TO RELOCATION.

C. ALL PROCESS PIPING WAS FLUSHED IN PLACE AND DRAINED TO THE NEUTRALIZATION SYSTEM PRIOR TO REMOVAL. ALL INTERIOR DUCTS WERE REMOVED, EXCLUDING DUCTS FOR AIR CONDITIONING AND CHEMICAL HOOD EXHAUST IN THE COATING ROOM. . ALL PROCESS DUCTS WERE FLUSHED AND DRAINED TO THE NEUTRALIZATION SYSTEM PRIOR TO MOVING OR DISPOSAL. A LITMUS PAPER TEST WAS PERFORMED TO DETERMINE PH. A PH OF 7.0-8.0 WAS CONSIDERED ACCEPTABLE. ALL PROCESS EQUIPMENT, EXCEPT SOLVENT AND GOLD CONTAINING EQUIPMENT, WAS CLEANED, FLUSHED AND DRAINED TO THE NEUTRALIZATION SYSTEM. SOLVENT AND GOLD CONTAINING EQUIPMENT WERE FLUSHED AND DRUMMED FOR HAZARDOUS WASTE DISPOSAL.

D. THE ONLY EQUIPMENT REMAINING ON SITE IS ELECTRICAL UTILITY EQUIPMENT AND THE CHEMICAL HOOD EXHAUST FAN FOR THE COATING ROOM ALL PROCESS EQUIPMENT WAS RELOCATED TO THE NEW FACILITY.

E. ALL FLOORS WERE CLEANED WITH SOAP AND WATER AFTER THE PROCESSING EQUIPMENT WAS REMOVED. AN ACID AND BASE SOLUTION WAS USED TO CLEAN STAINED AREAS. THE MANUFACTURING CONCRETE FLOOR AND TRENCH WERE SAND OR BEAD BLASTED.

F. THE SUMP AREA WAS TESTED (ATTACHMENT V), THE SUMP CONCRETE WAS CHIPPED OUT AND DISPOSED. SAMPLES WERE TAKEN OF THE SOIL BENEATH THE SUMP AREA AND TESTED FOR COPPER CONTAMINATION LEVELS. SOIL SAMPLE ANALYSIS SHOWED 340 MG/KG COPPER (ATTACHMENT VIII). NO FURTHER ACTION IS REQUIRED BASED ON THE SOIL ANALYSIS.

G. THE HAZARDOUS WASTE CONTAINMENT AREA WAS TESTED FOR CONTAMINATION PER ATTACHMENT V, BROKEN UP AND DISPOSED. SAMPLES WERE TAKEN OF THE SOIL BENEATH THE HAZARDOUS WASTE AREA AND TESTED FOR COPPER CONTAMINATION LEVELS. SOIL SAMPLE ANALYSIS SHOWED 25 MG/KG COPPER. NO FURTHER ACTION IS REQUIRED BASED ON THE SOIL ANALYSIS.

H. ALL HAZARDOUS MATERIALS ON SITE WERE TRANSPORTED TO OLIN MESA'S NEW LOCATION AT 3500 GARRETT DRIVE, SANTA CLARA, CA, BY DEVINCENZI TRUCKING COMPANY, SAN FRANCISCO, CA, ON OCTOBER 3, 1989. THE SHIPPING LIST IS ATTACHED (ATTACHMENT II). ALL HAZARDOUS WASTES WERE SHIPPED TO CHEMICAL WASTE MANAGEMENT (SPENT LT-26, COPPER CONTAMINATED INERTS, SPENT NICKEL BATH AND SPENT STRIPPER), SOLVENT SERVICES (SPENT SOLVENT), CPI INORGANICS (WASTE AMMONIUM HYDROXIDE), OR AMERICAN CHEMICAL & REFINING (CYANIDE GOLD SOLUTION). ALL UNIFORM HAZARDOUS WASTE MANIFESTS FOR THOSE SHIPMENTS ARE ATTACHED (ATTACHMENT III).

I. FOR WIPE SAMPLES DETECT CONTAMINATION ABOVE ACTION LEVELS, AFTER DECONTAMINATION WIPE SAMPLES WERE OBTAINED TO VERIFY DECONTAMINATION WAS COMPLETE (ATTACHMENT VII).

IV. CONCLUSIONS

A. THERE ARE NO ENVIRONMENTAL OR HEALTH RISK POSED BY THE FACILITY AFTER COMPLETION OF REMEDIATION. OLIN MESA DID NOT EXPERIENCE ANY REPORTABLE SPILLS IN THE HISTORY OF THE COMPANY. IN SEPTEMBER 1988, A PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT AND

GROUNDWATER INVESTIGATION WAS COMPLETED. NO DETECTABLE CONCENTRATIONS OF SEMIVOLATILE ORGANIC COMPOUNDS WERE REPORTED. TRICHLOROETHYLENE (TCE) AND TRANS-1,2-DICHLOROETHYLENE (T-1,2-DCE) WERE DETECTED. OLIN MESA USES RESEARCH QUANTITIES OF TCE AND HAS NEVER USED DCE. BECAUSE TCE AND DCE WERE DETECTED IN THE UPGRADIENT WELL, IT APPEARS THESE COMPOUNDS ORIGINATED FROM AN OFFSITE SOURCE.

THE FINAL WIPE SAMPLE ANALYSIS SHOWED THAT ALL AREA SAMPLES WERE BELOW THE BACKGROUND SAMPLES FOR NICKEL AND COPPER EXCEPT AT AREA #3B WHERE THE FLOOR HAS BEEN RECLEANED AND AND A RETEST WAS CONDUCTED 10/23/89. THE RESULTS WILL BE SUBMITTED TO THE CITY WHEN RECEIVED.

Attachment I.

OLIN MESA CLOSURE PLAN
1130 TERRA BELLA AVENUE
MOUNTAIN VIEW, CA

I. INTRODUCTION:

A. 1130 TERRA BELLA AVENUE, MOUNTAIN VIEW, CA.

B. COMPANY HEADQUARTERS, RESEARCH & DEVELOPMENT, AND MANUFACTURING FACILITY FOR TAB (TAPE AUTOMATED BONDING) TAPE FROM MARCH, 1983 TO SEPTEMBER, 1989.

C. 1. MESA TECHNOLOGY (NOW OLIN MESA CORP.) OCCUPIED THIS BUILDING IN MARCH, 1983 AS A COMPANY HEADQUARTERS, TAB TAPE RESEARCH & DEVELOPMENT AND MANUFACTURING FACILITY. THE BUILDING WAS CONSTRUCTED IN MAY, 1982 BY PEERY AND ARRILAGA AND CALLED "SHARP INDUSTRIAL PARK." FROM AVAILABLE RECORDS, IT APPEARS THAT BETWEEN 1972 AND 1982 THE PROPERTY WAS A PLASTER CONTRACTORS YARD AND PRIVATE RESIDENCE.

2. IN SEPTEMBER 1988, AQUA TERRA TECHNOLOGIES COMPLETED A PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT AND GROUNDWATER INVESTIGATION FOR SNIDER PROPERTIES. NO DETECTABLE CONCENTRATIONS OF SEMIVOLATILE ORGANIC COMPOUNDS WERE REPORTED. TRICHLOROETHYLENE (TCE) AND TRANS-1,2-DICHLOROETHYLENE (T-1,2-DCE) WERE DETECTED. OLIN MESA USES RESEARCH QUANTITIES OF TCE AND HAS NEVER USED DCE. BECAUSE TCE AND DCE WERE DETECTED IN THE UPGRADIENT WELL, IT APPEARS THESE COMPOUNDS ORIGINATED FROM AN OFFSITE SOURCE. A REVIEW OF THE DATA INDICATES TRACE CONCENTRATIONS OF METALS WERE DETECTED DUE TO PRESENCE OF SOIL PARTICLES IN THE SAMPLES. THE "PRELIMINARY ENVIRONMENTAL ASSESSMENT AND GROUNDWATER INVESTIGATION FOR PROPERTY LOCATED AT 1130 TERRA BELLA AVENUE, MOUNTAIN VIEW, CA, ATT PROJECT #859" IS ATTACHED (ATTACHMENT I).

II. FINAL SITE INSPECTION AND ASSESSMENT:

A. ALL HAZARDOUS MATERIALS ON SITE WERE TRANSPORTED TO OLIN MESA'S NEW LOCATION AT 3500 GARRETT DRIVE, SANTA CLARA, CA, BY DEVINCENZI TRUCKING COMPANY, SAN FRANCISCO, CA, ON OCTOBER 3, 1989. THE

ATT

September 7, 1988

ATTACHMENT 1

Mr. Archie Snider
Snider Properties
3355 Edward Avenue
Santa Clara, CA 95054

Subject: Preliminary Environmental Assessment and Groundwater Investigation for Property Located at 1130 Terra Bella Avenue, Mountain View, CA, ATT Project #859

Dear Mr. Snider:

Aqua Terra Technologies, Inc. (ATT) is pleased to submit our findings of a preliminary environmental site assessment and groundwater investigation of property located at 1130 Terra Bella Avenue, Mountain View, CA.

Aqua Terra Technologies
Consulting Engineers
& Scientists

1950 Buskirk Avenue
Suite 320
Walnut Creek, CA
94596
(415) 934-4884

The preliminary environmental site assessment included a site reconnaissance, a review of appropriate regulatory agency files, a review of historical aerial photographs, monitoring well construction, groundwater sampling and analyses. The objectives were to determine whether contamination to the local soils or groundwater has occurred, and to evaluate whether any previous activities or currently existing conditions could impact the environmental quality of the subject parcel. The objective of the field investigation was to provide a preliminary quantitative assessment of local groundwater conditions.

SITE HISTORY

The subject parcel is located on the north side of Terra Bella Avenue near Linda Vista Avenue, in Mountain View, California. The subject parcel consists of approximately 0.9 acres of land and is occupied by one building surrounded by a parking lot. The subject property is situated among several industrial companies which exist along all four property boundaries. A storage yard is located on the west side of the property; to the south are a weed and pest control business, computer hardware and software facilities, a machine shop, a landscape gardener, a laboratory, and numerous residences. On the eastern side of the building is an engineering contractor's yard, which contains a large amount of debris including rusting drums and pallets, the former Jasco Chemical property, and several auto repair shops. A site location map is presented in Plate A1, Attachment A.

The property has been used for research and development, manufacturing, and as a warehouse for Mesa Technology for the past five years. The building presently on the property was constructed in May, 1982 by Peery and Arrilaga, and called "Sharp Industrial Park". From available records, it appears that the property was a plaster contractors yard and private residence between 1972 and 1982. Aerial photographs confirm storage of wallboard and construction debris on the subject property during this time period. Aerial photographs indicate that the area was agricultural in the 1950s, with a transition to residential/suburban in the 1960s and 1970s.

SITE RECONNAISSANCE

A site reconnaissance of the property was made on August 10, 1988. The purpose of the site visit was to inspect the subject parcel for any evidence of visual contamination and to canvass the area surrounding the subject parcel in order to determine the identity of neighboring facilities and operations or activities which could possibly impact the environmental quality of the subject property.

At the time of the site reconnaissance, several 55-gallon drums containing spent solvents and other chemicals were observed on a paved surface behind a fence at the facility. In general, the drums were labeled, appeared to be in good condition, and were being stored in an enclosed area. Other chemicals were observed in storage in this same area. However, a complete review of chemical management practices was outside the scope of work of this investigation.

HAZARDOUS MATERIALS HANDLING ON-SITE

A "Tenant Environmental Risk Assessment Questionnaire" filled out by Mesa Technology, an alphabetical listing of chemicals used on-site, and a city of Mountain View Hazardous Materials Management Plan (HMMP) Facility Directory are provided in Attachment B. The questionnaire indicates that acids, caustic/alkaline cleaner, cyanide, photo resist stripper, and flammable solvents are stored at the facility. Flammable solvents are the only chemicals stored in 55-gallon drums. All other chemicals are stored in bottles or carboys

less than 30 gallons in volume. Hazardous waste including waste solvents generated on-site are transported off-site. The information provided by Mesa indicates that the wastes were transported offsite to a proper recycling or disposal facility. Industrial wastewater is treated on-site in a neutralization sump, which according to Mr. Curt Richards, Director of Operations for Mesa Technology, is a concrete pit in the ground for neutralization of corrosives and acids under permit by the City of Mountain View. This permit was not available for review by ATT. To his knowledge the treatment system has always met permit requirements which includes periodic sampling and analysis for priority pollutants. The questionnaire indicated that hazardous material spills to the sewer have occurred, but does not provide further detail.

ATT SOIL AND GROUNDWATER INVESTIGATION

The groundwater investigation conducted by ATT included the drilling of groundwater monitoring wells to evaluate subsurface conditions and the collection of groundwater samples for analysis.

Three groundwater monitoring wells, Wells MW-1 through MW-3, were installed at the property at locations shown in Attachment A-2. Wells MW-1 and MW-2 were placed downgradiant of site facilities at Mesa Technology to evaluate the presence or absence of groundwater contamination as a result of site activities. Well MW-3 was placed in an inferred upgradient area away from known site activities in order to establish background groundwater physical and chemical characteristics. The wells were installed under the direct supervision of a California Registered Geologist.

Monitoring Well Construction, Development, and Sampling

Permits obtained from the Santa Clara Valley Water District (SCVWD) for each well installed at the site. Monitoring well construction proceeded according to guidelines and requirements of the SCVWD. A description of drilling procedures and groundwater monitoring well construction and design is presented in Attachment C1. Soil samples were collected every five feet and logged according to the Unified Soil Classification System. Lithologic logs of the borings are presented in

Attachment C2, and well construction details are presented in Attachment C3.

After the well construction was completed, the wells were developed as described in Attachment C1. Wells MW-1 and MW-3 were developed with a centrifugal pump. A total of 80 and 70 gallons, were removed from these wells, respectively, until a moderately turbid to slightly cloudy discharge was obtained. The groundwater in Well MW-2 was thick with mud prior to development and could only be developed with a bailer. After bailing 40 gallons, the water still contained a significant amount of mud.

After the wells were constructed and developed, groundwater samples were collected. Groundwater sample collection and handling protocol are described in Attachment C4. The groundwater samples were transported to a laboratory certified by the California Department of Health Services (DHS) for complete chemical analysis of hazardous waste and drinking water. Proper chain of custody documentation accompanied the samples to the laboratory. Unfiltered groundwater samples were analyzed for purgeable organic compounds using gas chromatography/mass spectroscopy according to EPA Method 624, for semivolatile organic compounds using gas chromatography/mass spectroscopy according to EPA Method 625, and for California Code of Regulations (CCR) priority pollutant metals according to EPA Methods in the 6000/7000 series. The groundwater was analyzed on a normal priority basis. Environmental sample collection and chain of custody records are presented in Attachment C5.

Site Geology and Hydrogeology

The lithologic logs (Attachment C2) indicate that site conditions are characterized by an upper sequence of dry, stiff clay with minor gravel, underlain by fine sand with approximately 15 percent fine gravel. Clay occurs beneath the sand and gravel, at approximately 21 feet. Groundwater was generally first encountered between 11.5 and 13.5 feet. The saturated zone is characterized by well graded fine, loose to moderately dense, unconsolidated sand and gravel. The localized geologic conditions indicated on the boring logs

correlates with observations made at nearby sites. Groundwater occurs under unconfined conditions.

Groundwater Flow Direction, Gradient, and Velocity

A level and traverse survey was conducted to estimate groundwater gradient and flow direction. The survey was conducted within one week after completion of the monitoring wells. To estimate the gradient and flow direction, depths of groundwater were measured relative to an arbitrarily established level of 100.00 feet at the well casing on Well MW-1. A groundwater contour map developed from the survey is shown in Plate A2, Attachment A.

Groundwater levels occurred at depths between 11.5 and 13.5 feet below grade. Groundwater appears to flow north-northwest under an approximate gradient of 0.012 feet per foot. The localized groundwater conditions indicated on the map corroborate the groundwater flow direction estimated from data at nearby sites.

Based on the lithology encountered in the groundwater monitoring wells and the results of groundwater pump tests in this aquifer less than one-fourth mile from the site, the magnitude of hydraulic conductivity is estimated to range from 10.0 to 100.0 meters per day (m/d) ("Groundwater Assessment-Spectra Physics Facility, Mountain View, California, Levine-Fricke, 22 July, 1985). This range is also consistent with published estimates for sand and fine gravel ("Summary of Hydrologic and Physical Properties of Rock and Soil Materials", United States Geological Survey Water Supply Paper, 1839-D, 1967). Using an average hydraulic gradient of 0.012 and an average effective porosity of 0.40, groundwater velocities are estimated to range from approximately 0.3 m/d to 3 m/d, or about 350 to 3500 feet per year. A more reliable estimate for site-specific hydraulic conductivity and other aquifer parameters requires performing an aquifer pumping test.

Site Chemical Conditions

Organic and metal analyses were performed on all groundwater samples. The results of these analyses are discussed below.

Organics

A compilation of laboratory data for organics is provided in Table D-1 of Attachment D. Complete laboratory data for organics is provided in the remainder of Attachment D. No detectable concentrations of semivolatile organic compounds were reported. Trichloroethylene (TCE) was detected at 13, 240, and 33 ug/L in Wells MW-1, MW-2, and MW-3, respectively and trans-1,2-Dichloroethylene (t-1,2-DCE) was detected at 22 and 6 ug/L in wells MW-2 and MW-3. In all three wells the level of TCE exceeded the California Department of Health Services (DHS) action level for drinking water of 5 ug/L which is accepted as a guideline for groundwater clean-up, although the contaminated groundwater is not considered potable. The DHS action level for t-1,2-DCE of 16 ug/L was exceeded in Well MW-2.

These concentrations will likely produce a regulatory response due to the State Water Resource Control Board's (SWRCB) non-degradation policy for groundwater resources which do apply to shallow water-bearing zones not commonly used for drinking water or specifically designated for a beneficial use. In most groundwater remediation programs, water quality goals are, therefore based upon background or natural concentrations of constituents.

Because TCE and t-1,2-DCE were detected in the upgradient well, Well MW-3, it appears that these compounds may have originated from an offsite source. However, higher concentrations of TCE and t-1,2-DCE occurred in Well MW-2, which is directly downgradient of Well MW-3. At this time it cannot be conclusively determined whether the compounds are present as the result of an onsite or an offsite source.

Metals

Analyses for seventeen metals listed in Section 66699 of the CCR, Title 22, were performed for groundwater samples collected from these wells to assess general groundwater quality. The results of these analyses are presented in Attachment D. A review of the data indicates that trace concentrations of metals were detected in all three groundwater samples due to

presence of soil particles in the samples. Higher concentrations of all metals in Wells MW-1 and MW-2 are likely due to the sorption of metals to soil particles in the groundwater. The concentrations of arsenic, barium, chromium, and mercury in all three wells exceed the corresponding Maximum Contaminant Levels (MCLs) established by the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. However, this water is not a drinking water source.

ENVIRONMENTAL BACKGROUND SURVEY

Appropriate regulatory agency files were reviewed to identify any previous site usage or activities involving the subject parcel or neighboring properties which may have impacted the environmental quality of the subject parcel. This activity included a review of the public record at: the State of California Regional Water Quality Control Board-San Francisco Bay Region (RWQCB), the State of California Department of Health Services (DHS), and the City of Mountain View Fire Department.

State of California Regional Water Quality Control Board (RWQCB)

The offices of the RWQCB maintains a list of files of all reported toxics releases and fuel tank leaks. ATT reviewed each list and files associated with investigations or remediation which has occurred at sites located within approximately one-half mile from the subject parcel. The following cases, divided into toxics and fuel leaks cases were reviewed:

Toxics Case Investigations

SPECTRA PHYSICS, INC., 1250 West Middlefield Road, and TELEDYNE SEMICONDUCTOR, 1300 Terra Bella Avenue. These sites are directly adjacent to one another, and are being evaluated together by the RWQCB. They are situated approximately one-quarter mile to the west of the subject site (cross-gradient). Chemicals detected in the groundwater at these locations have included the chlorinated organic compounds TCE, trans-1,2-DCE, tetrachloroethylene (PCE), trichloroethane (TCA) 1,1-dichloroethane (DCA), 1,1-dichloroethene (DCE), and Freon-113. The contamination was initially

detected in shallow groundwater at Teledyne in 1982 and at Spectra Physics in 1984. Both properties are the source of these constituents in shallow groundwater; the RWQCB has required extensive remedial action in the form of removal of underground tanks and sumps, and extraction and treatment of groundwater. Water level data collected from groundwater monitoring wells installed for these investigations indicate that the shallow groundwater and associated contaminant flow direction is towards the northwest, away from the subject site. Groundwater at these sites has historically exhibited up to 2,000 ug/L TCE. However, one well associated with the Spectra Physics/Teledyne investigation which is located approximately 500 feet west of the subject property does not contain detectable chlorinated organic compounds. Because current data shows that these organics were not in the southeastern edge of the Teledyne/Spectra Physics plume, this does not preclude the possibility that the contaminants are coming from that area.

JASCO CHEMICAL, INC., 1090 Terra Bella Avenue (at Linda Vista). Approximately 0.1 mile east of the subject site, TCE and TCA were detected in groundwater beneath this property in concentrations of 40 ug/L and 3 ug/L, respectively. Although Jasco has indicated to the RWQCB that neither of these chemicals were ever used or stored on the property, Jasco did maintain 10 underground storage tanks used for the storage of lacquer thinner, kerosene, and paint thinner. The tanks have been removed along with contaminated soil. The RWQCB files recommend "no further action" at the site.

CALIFORNIA FIRST BANK, 327 Moffett Boulevard (at Middlefield Road). This site is located approximately one-half mile south of the subject site. Preliminary studies indicate that TCE, DCE, DCA, and methylene chloride occur in groundwater at maximum concentrations of 300, 1,700, 3,500, and 100 ug/L, respectively and that underground sumps may have been the source of some or all of these compounds to soil and groundwater. Groundwater flow for this site has been estimated to be in a north-northwesterly direction, indicating that it

is upgradient of the subject property. James M. Montgomery Engineers performed the subsurface investigations, which to date have not extended offsite. Additional monitoring wells and soil borings have been proposed, but it is not known when this information will become available for evaluation.

Fuel Leak Investigations

ARCO SERVICE STATION, 790 Stierlin Road (at Middlefield). Floating petroleum product was reported in July 1987, with total petroleum hydrocarbon concentrations up to 7,800 mg/L (milligrams per liter or parts per million - ppm). Information in the files does not contain sufficient detail to indicate whether the hydrocarbon consisted of gasoline or diesel fuel. The lateral extent of this occurrence or further investigation details are not documented in the file.

ROBB JACK CORPORATION, 1080 Linda Vista Avenue (at San Leandro Avenue). According to the files, one 1,000 gasoline tank was removed from this property in 1986. Soil removed from the excavation contained up to 2,?00 ppm gasoline. A groundwater sample collected from a monitoring well on this property indicated that gasoline components, including benzene, toluene, and xylene were not detected. The specific laboratory detection limits are not known, however. Although soil and/or groundwater contamination have been detected upgradient and cross-gradient from the subject parcel, there is no evidence that significant offsite migration has occurred or that the environmental quality of the subject property has been adversely impacted by reported upgradient conditions.

State of California Department of Health Services

Several databases containing lists of State and Federal Superfund cases were evaluated to determine if hazardous waste or toxic substance activities in the area may impact the site. The EPA CERCLIS (Superfund) database which lists potential uncontrolled hazardous waste sites

that have been brought to the attention of the EPA included Spectra Physics, Teledyne, and Jasco Chemical, sites discussed in the above section. No additional information was provided.

A review of the DHS "Expenditure Plan for Hazardous Substances Cleanup Bond Act of 1984", Revision 3, January 1988 indicates that there are no sites with known contamination in on-site soil or underlying groundwater upgradient of the subject property.

Review of City of Mountain View Records

The Mountain View Fire Department was contacted by ATT regarding the present or former existence of underground storage tanks and hazardous materials storage at the subject property and at adjacent properties. The Fire Department has a Hazardous Materials Management Plan (HMMP) dated March 23, 1988 for Mesa Technology and records indicate that the Fire Department located a wastewater sump at the property in 1983. The HMMP (Attachment B), lists chemicals stored both inside and outside of the building.

There are numerous facilities throughout this area which may be storing hazardous materials or have underground storage tanks or sumps. It will take several more weeks for the City of Mountain View to research adjacent properties. ATT will evaluate this information as soon as it is available.

CONCLUSIONS

A preliminary environmental site assessment and groundwater investigation consisting of a site reconnaissance, a review of appropriate regulatory agency files, a review of historical aerial photographs, monitoring well construction, groundwater sampling and analyses has been conducted. The purpose of the investigation was to determine whether contamination to the local soils or groundwater existed, and to evaluate whether any previous activities or currently existing conditions could impact the environmental quality of the subject parcel.

The site investigation indicates that two chlorinated hydrocarbons, TCE and t-1,2-DCE occur in shallow groundwater at the subject property. Both chemicals occur in both the upgradient well, Well MW-3 and in higher concentrations in one of the downgradient wells, Well MW-2, indicating that the source may be on-site or off-site. If the source is off-site it may be from either an adjacent property or from a plume with a source some unknown distance upgradient.

RECOMMENDATIONS

The following specific activities are recommended to determine the source of TCE in groundwater at the subject property:

- A review of records maintained by Mesa Technology pertaining to the purchase, storage, use, and disposal of hazardous materials is recommended. Specifically, this should include a review of the use of solvents in industrial processes beginning with the initial occupancy of the building. Records and manifests should be reviewed, and former personnel interviewed to determine their knowledge of any historical TCE use. MSDS sheets for chemicals historically and presently used at the facility should be reviewed to determine the chemical content of proprietary chemicals listed in usage at the facility. The wastewater sump should also be inspected to determine its intregity.

- A review of the records provided by the City of Mountain View on hazardous materials storage for the industrial area directly upgradient of the subject parcel is recommended. These records will be available within two weeks.

- A thorough review should be made of files pertaining to the California First Bank property to evaluate this site as a potential source of contamination. A review of agency files for sites located up to one and one-half miles upgradient should also be made.

- The outer boundaries of TCE and t-1,2-DCE in the groundwater on the property should be defined. In order to conclude where the outer boundaries exist,

grab groundwater samples should be collected and mobile analytical laboratory facilities utilized. This technique allows a same-day sampling and analytical response for a total of up to 15 sampling locations. Because response time will be rapid, sampling locations will be selected as analytical data becomes available. Therefore, each sampling location represents a refinement to defining the boundaries of chemical contamination.

A California Registered Geologist will supervise all drilling operations. Duplicate samples of every fourth sample will be submitted to a DHS certified analytical laboratory for confirmation analyses. Prior to drilling, a private utility locator will mark all utility lines. Snider Properties will be responsible for approving all boring locations prior to drilling.

PROPOSED BUDGET

ATT proposes that compensation for consulting services performed by ATT not to exceed $16,400.00 for work defined in the above recommendatins. If it is necessary to perform the field activities on a weekend, the compensation will not exceed $19,500.00 for work defined herein. Personnel time shall be reimbursed according to the attached Schedule of Charges and direct job related costs shall be reimbursed cost plus 15 percent. The Schedule of Charges (Attachment E) includes all overhead costs. Expenses include travel by public and commercial transportation, meals and lodging while traveling, materials other than normal office supplies, reproduction, printing, services of subconsultants and subcontractors, and other definable job expenses. The use of ATT vehicles for travel shall be paid at the rate of $0.25 per mile.

To assure a clear understanding of all matters related to our mutual responsibilities, the attached Standard Conditions are made a part of our agreement. These terms are appropriate for use with agreement of the provision of consulting services and, accordingly, should any conflict exist between the attached terms and the form of any purchase order or confirmation issued, these terms shall prevail. Our written agreement precedes and supercedes any verbal agreement.

If the recommendations and budget estimate meets with your agreement, please sign where noted below and return a copy to our office to act as our authorization. We look forward to working with you on this project.

Very truly yours,

AQUA TERRA TECHNOLOGIES, INC.

Julie S. Menack

Julie S. Menack, M.S., R.G. #4440
Project Geologist

Ronald Block

Ronald M. Block, Ph.D.
Project Manager

JSM/RMB:dbh
Attachments

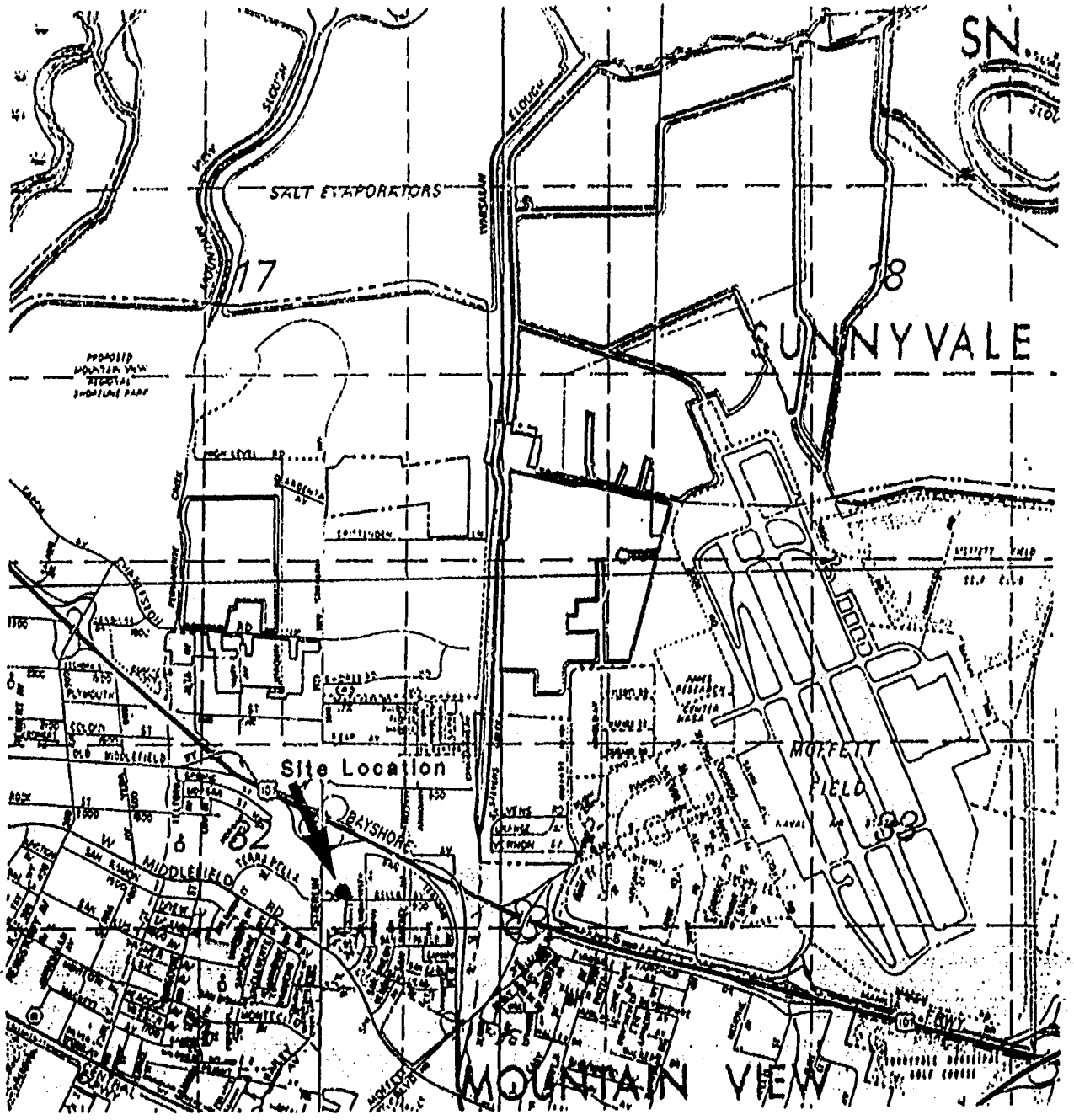
AGREEMENT:

Snider Properties

By: _____

Title: _____

Date: _____

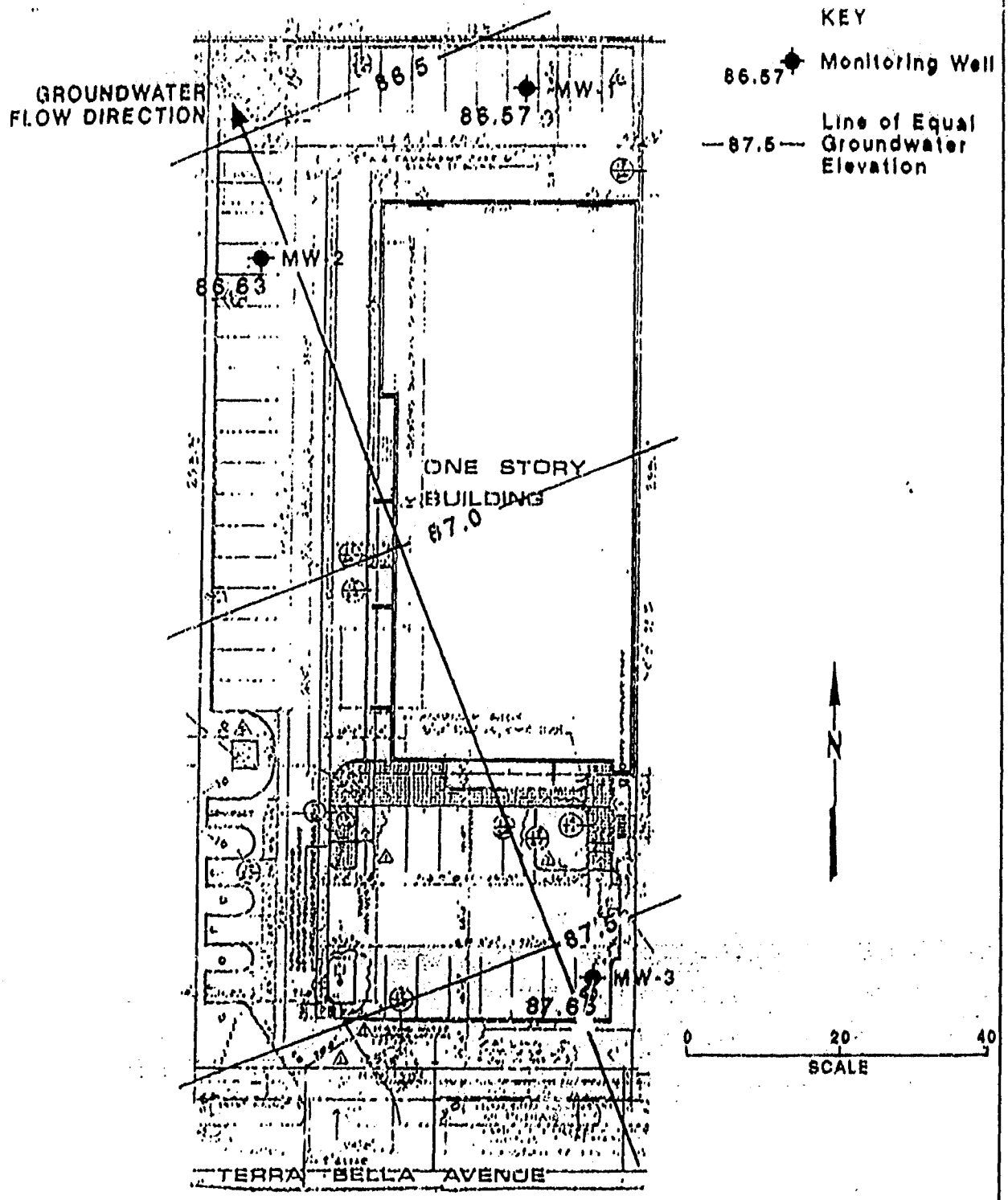


SITE LOCATION MAP
1130 TERRA BELLA AVENUE
MOUNTAIN VIEW, CA.

ATT Aqua Terra Technologies
Consulting Engineers
& Scientists

SNIDER PROPERTIES

JOB NUMBER	DATE	PLATE
859	9/7/88	A-1



GROUNDWATER CONTOUR MAP
1130 TERRA BELLA AVENUE
MOUNTAIN VIEW, CA.

ATT Aqua Terra Technologies
Consulting Engineers
& Scientists

SNIDER PROPERTIES		PLATE
JOB NUMBER	DATE	A-2
JOB 859	9/7/88	

ATTACHMENT B

Facility Storage Information

CITY OF MOUNTAIN VIEW

HMMP FACILITY DIRECTORY
(see back of sheet for instructions)

FIRE DEPARTMENT
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

Official Use Only

ID | | | | | |

Business Name

(1) Hana Technology

Business Phone Number

(2) ( ) -

Facility Street Address

(3) 1130 Terra Bella Ave. Mountain View, California 94043

Mailing Address City State Zip Code

(4) 1130 Terra Bella Ave. Mountain View, California 94043

Attention

(5) Curt M. Richards

(6) Persons Responsible For:

	Name	Phone Number
APPLICATION	Curt M. Richards	(408) 996-2933
BUSINESS	Curt M. Richards	(408) 996-2133
PROPERTY	Eugene Sharp Estate	(415) 968-3423

(7) Persons Responsible For Responding In An Emergency After Normal Work Hours

Name	Title	Home Phone Number	Work Phone Number
Curt M. Richards	Dir. Of Operations	(408) 996-2933	(415) 961-6372
Phil G. Audet	Project Engr. Mgr.	(408) 378-0742	(415) 961-6372
Bill G. Bridges	Process Engr. Mgr.	(408) 268-5698	(415) 961-6372
Mark Davis	Maint. Foreman	(415) 967-6385	(415) 961-6372

(8) Business Activity Description

Company Headquarters and Manufacturing Facility

(9) Shift Times:

First: 7:30 to 4:00 Second: 1:00 to 9:30 Third: to

(10) Number of Employees Per Shift:

First: 38 Second: 4 Third:

(11) I declare under penalty of perjury, the foregoing information is true and correct.

Curt M. Richards — Print Name

Curt M Richards — Signature

3/31/93 — Date

HM3-1 (rev)
Rev. 10/92

White: Applicant Canary: Fire Department

CITY OF MOUNTAIN VIEW

STORAGE FACILITY PERMIT QUANTITY LIMIT
Amended 1987
(see back of sheet for instructions)

FIRE PREVENTION BUREAU
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

Page 1 of Pages 2

Official Use Only

(1) Page 1 of Pages 2

(2) Date 03-23-88

(3) Storage Facility Inside

Business Name: MESA TECHNOLOGY

Facility Street Number / Street Name: 1130 Terra Bella Avenue

DOT CLASS (5)	Chemical Name/Trade Name (6)	Quantity & Physical State: Gas (Cu Ft) (7)	Liquid (Gal) (8)	Solid (Lbs) (9)	Tank (10)	Waste (11)	Waste Annual Throughput (12)
FL	Acetone ✓		30				
Corr-L	Ammonium Hydroxide ✓		30				
Corr-L	Hydrochloric Acid ✓		30				
FL	2- Ethoxyethyl Acetate, O-Chlorotoluene/Microposit 119 S Photo Resist/Microposit 119 Thinner		30				
Corr-L	Sodium Hydroxide/Microposit 303 A Developer		150				
Corr-L	Glycol Ethers, 2- Butoxyethanol Ethanolamine, Dipropylene Glycol Methyl Ether/Microposit Remover 1112 A		150				
Corr-L	Phosphoric Acid		30				
FL	2- Propanol,		30				
Corr-L	Nitric Acid ✓		30				
Corr-L	Sulfuric Acid ✓		30				
Corr-L	Thiourea, Sodium Hypophosphite, Stannous Chloride/Tinposit LT-26 ✓		60	[illegible]			
FL	Waste Solvent ✓		60			X	165
Corr-S	Thiourea, Sodium Hypophosphite, Stannous Chloride/Tinposit LT-26			375			

HM3-2 (Rev. 12/86) White: Applicant 3 Copies Fire Department

CITY OF MOUNTAIN VIEW

FIRE PREVENTION BUREAU
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

STORAGE FACILITY PERMIT QUANTITY LIMIT
Amended 1987
(see back of sheet for instructions)

Official Use Only

Page (1) 2 of Pages 2

Date (2) 03-23-88

Storage Facility (3) Outside

Business Name: MESA TECHNOLOGY

Facility Street Number / Street Name: 1130 Terra Bella Avenue

DOT CLASS (5)	Chemical Name/Trade Name (6)	Quantity & Physical State: Gas (Cu Ft) (7)	Liquid (Gal) (8)	Solid (Lbs) (9)	Tank (10)	Waste (11)	Waste Annual Throughput (12)
OXY-S	Ammonium Persulfate			375			
orr-L	Ammonium Hydroxide, Ammonium Chloride Ammonium Carbonate/High Speed AC- CU- Guard Replenisher		220				
orr-L	Ammonium Chloride, Ammonium Hydroxide/High Speed AC- CU- Guard Starter		110				
orr-L	Sodium Hydroxide		30				
orr-L	Sulfuric Acid		30				
orr-L	Waste Corrosive Liquid		275			X	1980
orr-L	Waste Hydrochloric Acid Mixture		275			X	660
orr-L	Waste Ammonium Hydroxide Solution		165			X	1980
FG	NITROGEN.	200					
G	ACETYLENE.	200.					

FM9-3 (Rev. 12/86) White: Applicant — Canary: Fire Department

TENANT ENVIRONMENTAL RISK ASSESSMENT QUESTIONNAIRE

1. GENERAL INFORMATION

Name of Responding Company: MESA TECHNOLOGY

Mailing Address: 1130 TERRA BELLA AVE. MT. VIEW, CA 94043

Property Address, if different from above: _____

Name of Responder: CURT M. RICHARDS

Title: DIRECTOR OF OPERATIONS

Phone number: (415) 961-6372

Signature, date: Curt M. Richards 2/3/88

Age of Facility: 5

Length of Occupancy: 5

Major products manufactured and/or activities conducted on the property:
TAB (TAPE AUTOMATED BONDED) TAPE

Type of business activity(ies):
(Check all that apply)

- ___ Machine shop
- ___ Light assembly
- X Research and development
- ___ Product service or repair
- ___ Photo processing
- ___ Automotive service and repair
- X Manufacturing
- X Warehouse
- ___ Integrated circuit
- ___ Chemical/pharmaceutical prod.
- ___ Printed circuit

Hazardous materials activities:
(Check all that apply)

- ___ degreasing
- X chemical etching/milling
- X wastewater treatment
- ___ painting
- X stripping
- X cleaning
- ___ printing
- X analytical lab
- X plating
- ___ chemical mixing/synthesis
- ___ silkscreen
- ___ lathe/mill machining
- X deionized water prod.
- ___ photo masking
- ___ wave solder
- ___ metal finishing

2. HAZARDOUS MATERIALS/WASTE HANDLING AND STORAGE

a. Are hazardous materials handled on any of your shipping and receiving docks in container quantities greater than one gallon? (yes) or no

b. If hazardous materials or waste are stored on the premises, please check off the nature of the storage and type(s) of materials be1 w:

Type of hazardous materials and/or waste stored		
1-2	X	acid
1-2	X	caustic/alkaline cleaner
1-2	X	cyanide
2	X	photo resist stripper
	___	paint
	___	phenol
1-2-3	X	flammable solvent
	___	gasoline/diesel fuel
	___	nonflam./chlorinated solvent
	___	metallic solutions
	___	oil/cutting fluid

Type of Storage Container
(List above ground storage only)

Indicate storage container type from key below, i.e. 1 - 4, next to hazardous materials you store onsite.

1. 1 gal or 3 liter bottles
2. 5 to 30 gallon carboys
3. 55 gallon drums
4. tanks

c. Do you accumulate hazardous waste onsite? (yes) or no

If yes, how is it being handled?

___ onsite treatment or recovery
___ discharged to sewer
X hauled offsite
___ incineration

d. Indicate your hazardous waste storage status with DOHS:

X Generator
___ Interim Status Facility
___ Permitted TSDF
___ None of the above

3. INDUSTRIAL WASTEWATER TREATMENT/DISCHARGE

a. Do you discharge industrial wastewater to:

X sewer? POTW
___ storm drain?
___ surface water?
___ no industrial discharge

b. Is your industrial wastewater treated before discharge? (yes) or no

If yes, what type of treatment is being conducted?

- X Neutralization
- ___ Metal hydroxide formation
- ___ Closed loop treatment
- ___ Cyanide destruct
- ___ HF treatment
- ___ Other

4. SUBSURFACE CONTAINMENT OF HAZARDOUS MATERIALS/WASTES

a. Are underground ~~tanks~~/sumps being used for any of the following?

- ___ Hazardous waste storage
- ___ Chemical storage
- ___ Gasoline/diesel fuel storage
- ___ Waste treatment
- ___ Wastewater neutralization
- ___ Industrial wastewater treatment
- ___ None of the above
- X Wastewater collection

b. If underground ~~tanks~~ Sump are located onsite, indicate their construction:

- ___ steel
- ___ fiberglass
- X concrete
- ___ inside open vault
- ___ double walled

c. Are hazardous materials or untreated industrial wastewater transported via buried piping to tanks, process areas, or treatment areas? yes or (no)

d. Do you have wet floors in your process areas? yes or (no)

If yes, name processes: _____

e. Are abandoned underground tanks or sumps located on the property? yes or (no)

5. HAZARDOUS MATERIALS SPILLS

a. Have hazardous materials ever spilled to:
- X the sewer?
- ___ the storm drain?
- ___ onto the property?
- ___ no spills have occurred.

b. Have you experienced any leaking underground tanks or sumps? yes or (no)

c. If spills have occurred, were they reported? (yes) or no

Check off the government agencies that you have contacted regarding the spill(s):

- ___ Dept. of Health Services, Berkeley
- ___ Fish and Game
- ___ EPA, Region 9, San Francisco
- ___ S.F. Regional Water Quality Control Board (RWQCB)
- X Fire Department
- X POTW

d. Have you been contacted by a government agency regarding soil or groundwater contamination on your site? yes or (no)

6. WELLS

a. Do you have exploratory wells onsite? yes or (no)

If yes, indicate the following:

Number of Wells: _____
Approximate Depth of Wells: _____
Well diameters: _____

PLEASE ATTACH ENVIRONMENTAL REGULATORY PERMITS AND AGENCY REPORTS THAT APPLY TO YOUR OPERATION.

Check off those enclosed:

- Hazardous Materials Inventory Statement, HMIS
- Hazardous Materials Management Plan, HMMP
- Department of Health Services, Generator Inspection Report
- Underground Tank Registrations
- Industrial Wastewater Discharge Permit

MESA Technology

Material Safety Data Sheet

Manufacturing

Alphabetical Listing:

Acetone
Ammonium Bromide
Ammonium Hydroxide
Ammonium Persulfate (AP)
Auronal 6 Acid Solution
Auronal 6 Brightener
Auronal 6 Complexer Solution
Auronal 6 Gold Salts
Autostrike GP Acid Salts
Autostrike GP Brightener
Autostrike GP Complex Salts
Autostrike GP Gold Salts
Autostrike GP Make-Up/Conducting Salts
Autostrike GP Make-Up Liquid
ETP Copper (ETP 110)
High Speed Ac-Cu- Guard Replenisher
High Speed Ac-Cu- Guard Starter
Hydrochloric Acid (HCl)
Microposit® 119 S Photo Resist
Microposit® 119 Thinner
Microposit® 303A Developer
Microposit® Remover 1112A
Neutra-Clean® 7
Neutra-Clean® 68
Nitrogen
Phosphoric Acid
Photoposit® 7411 Defoamer

2 - Propanol (Isopropanol)
Sel-Rex: Lectro-Nic® 10-03 S Anode Activator
Sel-Rex: Lectro-Nic® 10-03 S Make-Up
Sel-Rex: Lectro-Nic® 10-03 S Replenisher
Sel-Rex: Nickel Sulfamate Solution
Silver Bearing Low Oxygen Copper (1094)
Sodium Hydroxide
Sulfuric Acid
Tinposit® LT-26

ATTACHMENT C

ATTACHMENT C-1

Drilling Procedures and Groundwater Monitoring Well Construction/Design

ATTACHMENT C-1

DRILLING PROCEDURES & GROUNDWATER MONITORING WELL CONSTRUCTION/DESIGN

DRILLING AND SAMPLING PROCEDURES

All borings for well construction were drilled using eight-inch diameter or larger hollow stem auger equipment. A California Registered Geologist directed the collection of undisturbed samples of the soils encountered and the preparation of detailed logs of each boring.

Soil sampling was conducted using a modified California drive sampler, a standard penetration sampler, or a five-foot continuous sampler. Representative samples of each soil type were retained in either Ziploc bags or two-inch to three-inch diameter, six-inch long, clean, brass tubes. The samples were retained for verification of soil classification and for chemical laboratory analytical testing, as appropriate. Teflon sheeting was placed between the soil sample and the cap, and the cap was sealed with PVC tape.

When access limitations do not allow drilling with truck mounted equipment, either a trailer mounted drilling rig, portable power driven, or manually operated soil sampling equipment is utilized. If soil samples are to be retained for analysis, they were collected in clean brass tubes fitted within a thin walled drive sampler. The soil samples would be capped and sealed as described above.

All down hole sampling, drilling, and well construction equipment and materials, including augers, casing, and screens were steam cleaned prior to their initial use. The sampling equipment was cleaned prior to each assembly by washing with a trisodium phosphate solution, rinsing with distilled water, and allowing to air dry. The auger flights, drill bit, and sampler were steam cleaned at each boring location.

MONITORING WELL CONSTRUCTION

Monitoring wells were constructed in accordance with applicable local water district or California Department of Water Resources guidelines. The specific completion details for each well were determined in the field at the time of drilling by a California Registered

Geologist experienced in groundwater monitoring system

design and installation.

Monitoring wells consist of two or four-inch diameter, Schedule 40 PVC casing and screens with flush, threaded joints. No PVC glue is used. The screened sections are machine slotted with either 0.010-inch (0.255 mm) 0.020-inch (0.51 mm) openings. The smaller slot size is used where the wells are screened within fine-grained sandy soils, and the larger slots are used where coarse sand or gravels are encountered. The slotted sections are fitted with a slip-on cap and placed opposite the water-bearing strata in the boring. The blank pipe is connected to the perforated pipe and extends to just below the ground surface.

The annulus between the side of the borehole and the slotted section are filled with a clean sand pack to variable depths, but not less than one or two feet above the perforated pipe. The annulus is packed with either Lonestar No. 1/20 (where 0.010-inch slotted pipe is used) or No. 3 (where 0.020-inch slotted pipe is used) washed sand filter material. The gradation of the filter material is summarized below:

U.S. Sieve No.	Opening (mm)	Percent Passing (No. 3)	Percent Passing (No. 1/20)
6	3.35	100	
8	2.36	99 - 100	
12	1.70	62 - 78	
16	1.18	15 - 33	100
20	0.85	0 - 8	90 - 100
30	0.60	0 - 4	14 - 40
40	0.425		0 - 5

A seal of bentonite pellets approximately 24-inches thick was placed above the sand pack to reduce the risk of grout penetration into the sand. The bentonite pellets were hydrated with distilled water to form a tight plug. A cement/bentonite grout was be placed above the bentonite plug to a depth of approximately two feet below the ground surface. The grout was pumped into the boreholes using a tremie pipe. Concrete was be placed from the top of the cement/bentonite mixture to the ground surface.

At most sites in sedimentary formations, it is not practical to "rationally design" a filter pack based on sieve analyses. From experience, Lonestar No. 1/20 or No. 3 washed sand as a filter material has been selected for use in the proposed wells. The 0.010-inch and 0.020-inch slot sizes were selected to retain 100 percent of the filter material.

The completed wells are enclosed in a traffic rated enclosure placed flush with grade or in an above-ground metal enclosure, and are fitted with a locking cap. If a groundwater level contour map was prepared, well head elevations were determined by a level survey, and well coordinates were determined by a traverse survey. The level/traverse survey was referenced to a bench mark of known or assumed elevation and coordinates. Once water levels have stabilized, water levels in all wells will be measured.

After the wells were completed, they were developed by pumping and surging to clean and stabilize the soils around the screens. A manually operated, positive displacement surge pump and Teflon bailer, surge block, and/or centrifugal pump was used for development. A minimum of 10 well casing volumes of water was removed during development; however, development continued until water flowed clear and pH, temperature, and conductivity stabilized. All development equipment was steam cleaned prior to its initial use in each well. A well development log was be maintained which will include 1) a record of development water parameters at frequent intervals, 2) the quantity of water removed during development, and 3) flow rates during development.

Soil cuttings generated during drilling were wrapped in plastic sheeting, and water generated during well development was retained in secured 55-gallon drums until chemical analytical data from samples were received.

ATTACHMENT C-2

Boring Logs

AQUA TERRA TECHNOLOGIES INC.

Log of Exploratory Boring

Project: Snider Properties Job No.: 859

Location: 1130 Terra Bella, Mountain View, CA

Boring No.: MW-1 Date: 9/10/88 Page 1 of 1

Geologist: JSM Project Manager: RMB Surface Elev.: Assumed 100'

Penetration (Blows/6")	Depth	U.S.C.S. Soil Class.	Field Description	Remarks
	0			
4	2	Asphalt	0-6" Asphalt	
5			6"-5'9" CLAY, brown (10YR4/3); 5% sand and fine gravel, weathered, stiff, dry.	
6	4	CL		
2				
4	6		5'9"-13' CLAY, very dark gray, (2.5YR3/0) silty, stiff, dry.	Drilling change 7'
7			@ 7': black (2.52/0); with gray (10YR5/1) in veins and small fractures; 10-30% fine gravel, increases to 13'.	
	8	CL		
2	10			
4				
7	12			
			13'-21'6" SAND AND GRAVEL, olive gray (5Y4/2); well graded fine sand (75%) and gravel (25%) including 10% gravel to 1-1/2".	▽ Water Level 13.43'
	14			
12		SW/GW		
17	16			
20				
	18			Heaving sands 18'
12	20			
14				
7	22			
		CL	21'6" CLAY, dark grayish brown (2.5Y4/2).	
	24		BORING TERMINATED AT 21'6"	
	26			
	28			
	30			
	32			
	34			
	36			

AQUA TERRA TECHNOLOGIES INC.

Log of Exploratory Boring

Project: Snider Properties Job No.: 859

Location: 1130 Terra Bella, Mountain View, CA

Boring No.: MW-2 Date: 8/10/88 Page 1 of 1

Geologist: JSM Project Manager: RMB Surface Elev. : Assumed 99.73'

Penetration (Blows/ 6")	Depth	U.S.C.S. Soil Class.	Field Description	Remarks
5	0	Asphalt	0-1' ASPHALT	
7	2		1'-14' CLAY; dark grayish brown (2.5NY/2); gravel 1/2"-1-1/2" diameter (20%), stiff, dry.	
9	4	CL	@26": grades to clay, black (5Y2.5/2); 20% gravel	
3	6		@ 4': dark gray (2.5YN4/2) and light gray (10YR7/2), no gravel.	
8	8		@10': gravel 1/2 -1-1/2" dia. 15%, moist at 10'6".	
14	10			
3	12			
6	14			▽ Water level 13.10'
7	16		14-20' SAND, olive gray (5Y.4/2); well graded, silty, fine gravel up to 1-1/2" (10-15%); wet.	
11	18	SW		
14	20			
	22		20-21' CLAY, dark grayish brown (2.5Y4/2), wet.	
	24	CL	BORING TERMINATED AT 21'.	
	26			
	28			
	30			
	32			
	34			
	36			

AQUA TERRA TECHNOLOGIES INC.

Log of Exploratory Boring

Project: Snider Properties Job No.: 859

Location: 1130 Terra Bella, Mountain View, CA

Boring No.: MW-3 Date: 8/10/88 Page 1 of 1

Geologist: JSM Project Manager: RMB Surface Elev. : Assumed 99.43'

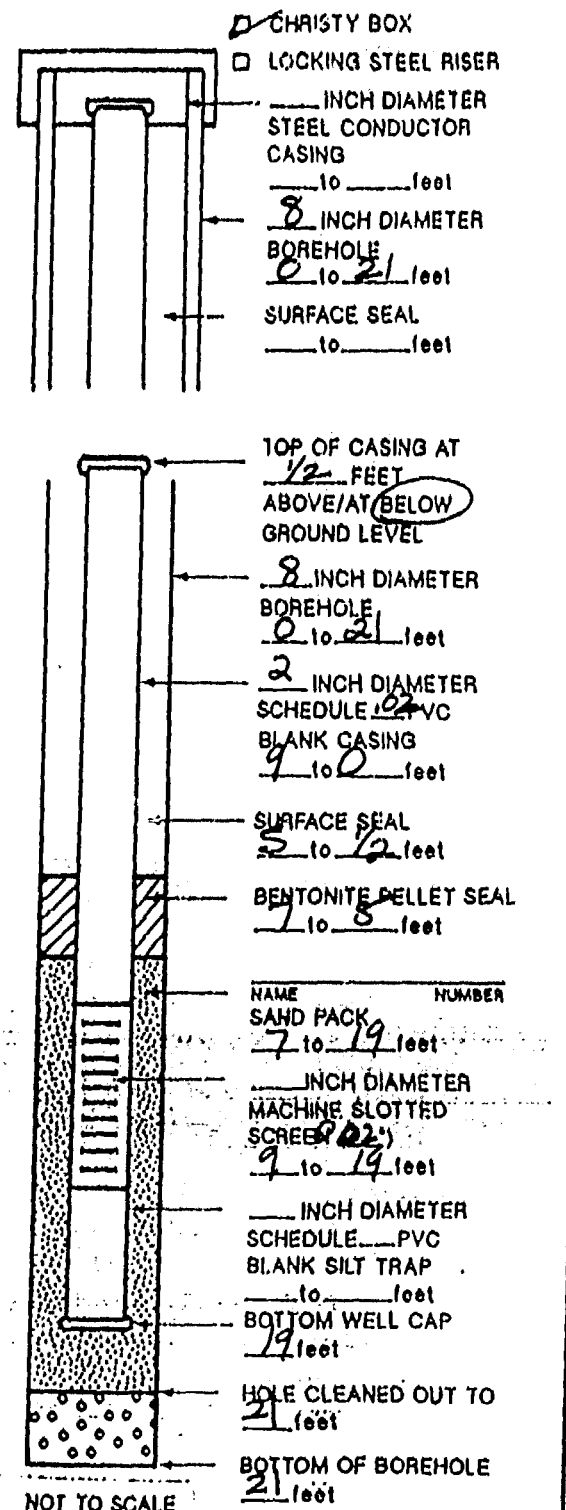
Penetration (Blows/ 6")	Depth	U.S.C.S. Soil Class.	Field Description	Remarks
	0			
3	2	ASPHALT	0-6" ASPHALT	
6			6" - 10' CLAY; dark olive gray (5Y3/2); silty; gravelly (10-40%, increases downwards to 5'3"), stiff; no gravel 5'3" to 10'.	
9	4	CL		
2				
6	6			
8			- grades into	
	8			
N/R	10		10'-13'6" SILT; light brownish gray (10YR6/2); white in fracture planes (5YR8/1).	▽ Water level 11.65'
	12	ML		
N/R	14		13'6"-21' SAND, dark grayish brown (2.5Y4/2); with gravel (5% large, 10% fine).	
	16	SW/SP		
	18		@ 20': 3" layer silt, light gray (2.5Y7/2), stiff.	
12	20			
28				
40	22		BORING TERMINATED AT 21'.	
	24			
	26			
	28			
	30			
	32			
	34			
	36			

ATTACHMENT C-3

Well Construction and Development Details

ATT

WELL CONSTRUCTION AND DEVELOPMENT DETAILS



ADDITIONAL INFORMATION:
Caved to 19 feet

JOB NAME Snyder

JOB NUMBER 859 | PROJECT MANAGER RMB

LOGGED BY JSM / TM | EDITED BY JSM

WELL DESIGNATION MW-1 | DATE 8/10/88

DRILLING COMPANY Spectrum

EQUIPMENT: ☐ ____ INCH ROTARY WASH ☒ 8 INCH HOLLOW STEM AUGER ☐ ____ INCH DUAL TUBE | DRILLER Alan | HOURS DRILLED 2 1/2

VOLUME OF WATER USED DURING DRILLING: 0 GALLONS

METHOD OF DECONTAMINATION PRIOR TO DRILLING: Steam Cleaner

DEVELOPMENT

METHOD OF DEVELOPMENT: Centrifugal Pump

DEVELOPMENT BEGAN: DATE 8/11/88 TIME 1315

YIELD: 10 GPM | TIME: FROM 1315 TO 1330 | DATE: 8/11/88

YIELD: ____ GPM | TIME: FROM ____ TO ____ | DATE: ____

DEVELOPMENT ENDED: DATE 8/11/88 TIME 1330

TOTAL WATER REMOVED DURING DEVELOPMENT: 80 GALLONS

DESCRIPTION OF TURBIDITY AT END OF DEVELOPMENT: ☐ CLEAR ☐ SLIGHTLY CLOUDY ☒ MOD. TURBID ☐ VERY MUDDY

ODOR OF WATER: Sweet

WATER DISCHARGED TO: ☐ GROUND SURFACE ☐ STORM SEWERS ☐ TANK TRUCK ☐ STORAGE TANK ☒ DRUMS ☐ OTHER

DEPTH TO WATER AFTER DEVELOPMENT 13.43 FEET

MATERIALS USED

3½ SACKS OF Monterey #3 SAND

2 SACKS OF Neat Portland CEMENT

____ GALLONS OF GROUT USED

½ SACKS OF POWERED BENTONITE

50 POUNDS OF BENTONITE PELLETS

9 FEET OF 2 INCH PVC BLANK CASING

10 FEET OF 2 INCH PVC SLOTTED SCREEN

____ FEET OF ____ INCH STEEL CONDUCTOR CASING

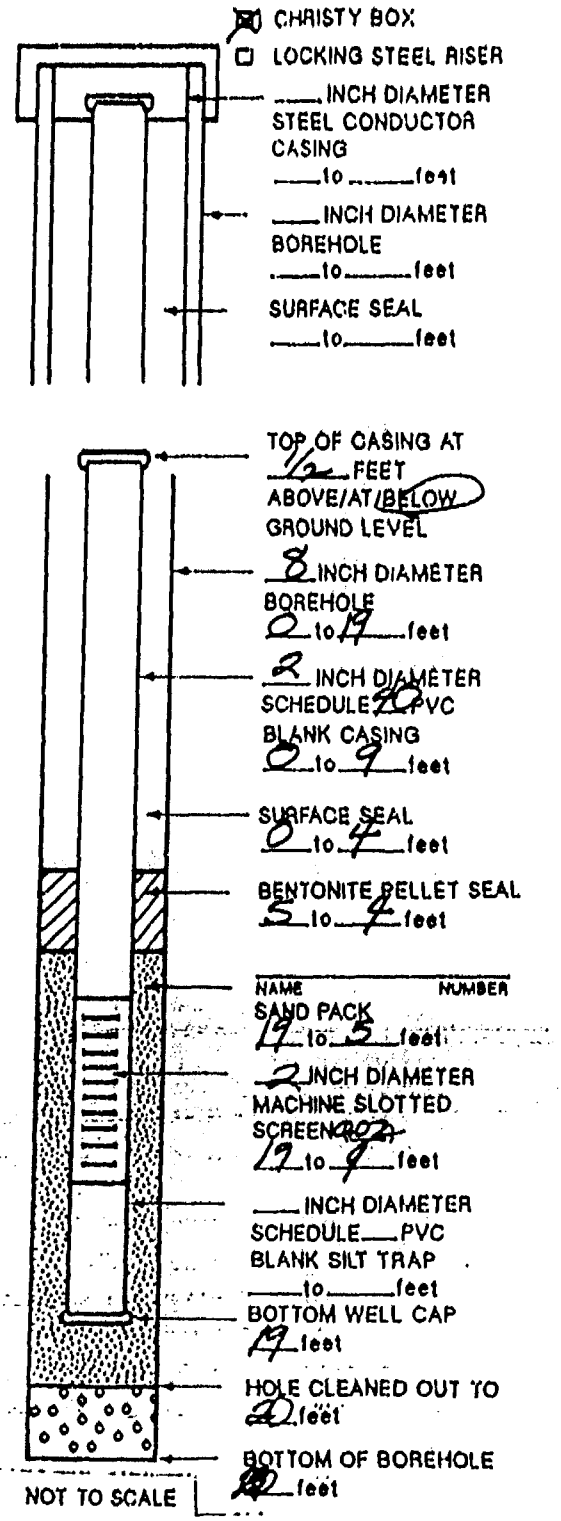
GROUT PUMP USED? ☒ YES ☐ NO

TREMIE PIPE USED? ☐ YES ☒ NO

WELL COVER USED ☐ LOCKING STEEL COVER ☒ CHRISTY BOX ☐ OTHER ____

SILT TRAP USED? ☐ YES ☒ NO

WELL CONSTRUCTION AND DEVELOPMENT DETAILS



ADDITIONAL INFORMATION:

JOB NAME	Snider
JOB NUMBER	859
PROJECT MANAGER	RMB
LOGGED BY	JSM/TM
EDITED BY	JSM
WELL DESIGNATION	MW-2
DATE	8/10/88
DRILLING COMPANY	Spectrum
EQUIPMENT	☐ ___ INCH ROTARY WASH ☒ 8 INCH HOLLOW STEM AUGER ☐ ___ INCH DUAL TUBE
DRILLER	Alan
HOURS DRILLED	2 1/2
VOLUME OF WATER USED DURING DRILLING	0 GALLONS
METHOD OF DECONTAMINATION PRIOR TO DRILLING	Steam Cleaner

DEVELOPMENT

METHOD OF DEVELOPMENT	PVC Hand Pump
DEVELOPMENT BEGAN	DATE 8/16/88 TIME 1400
YIELD: 1 GPM	TIME: FROM 1400 TO 1600 DATE: 8/16/88
YIELD: ___ GPM	TIME: FROM ___ TO ___ DATE:
DEVELOPMENT ENDED	DATE 8/16/88 TIME 1600
TOTAL WATER REMOVED DURING DEVELOPMENT	40 GALLONS

DESCRIPTION OF TURBIDITY AT END OF DEVELOPMENT: ☐ CLEAR ☐ SLIGHTLY CLOUDY ☐ MOD. TURBID ☒ VERY MUDDY

ODOR OF WATER:

WATER DISCHARGED TO: ☐ GROUND SURFACE ☐ STORM SEWERS ☐ TANK TRUCK ☐ STORAGE TANK ☒ DRUMS ☐ OTHER

DEPTH TO WATER AFTER DEVELOPMENT 13.10 FEET

MATERIALS USED

- 4 SACKS OF Monterey #3 SAND
- 2 SACKS OF Portland CEMENT
- ___ GALLONS OF GROUT USED
- 1/2 SACKS OF POWERED BENTONITE
- 25 POUNDS OF BENTONITE PELLETS
- 8 FEET OF 2 INCH PVC BLANK CASING
- 10 FEET OF 2 INCH PVC SLOTTED SCREEN
- ___ FEET OF ___ INCH STEEL CONDUCTOR CASING

GROUT PUMP USED? ☒ YES ☐ NO

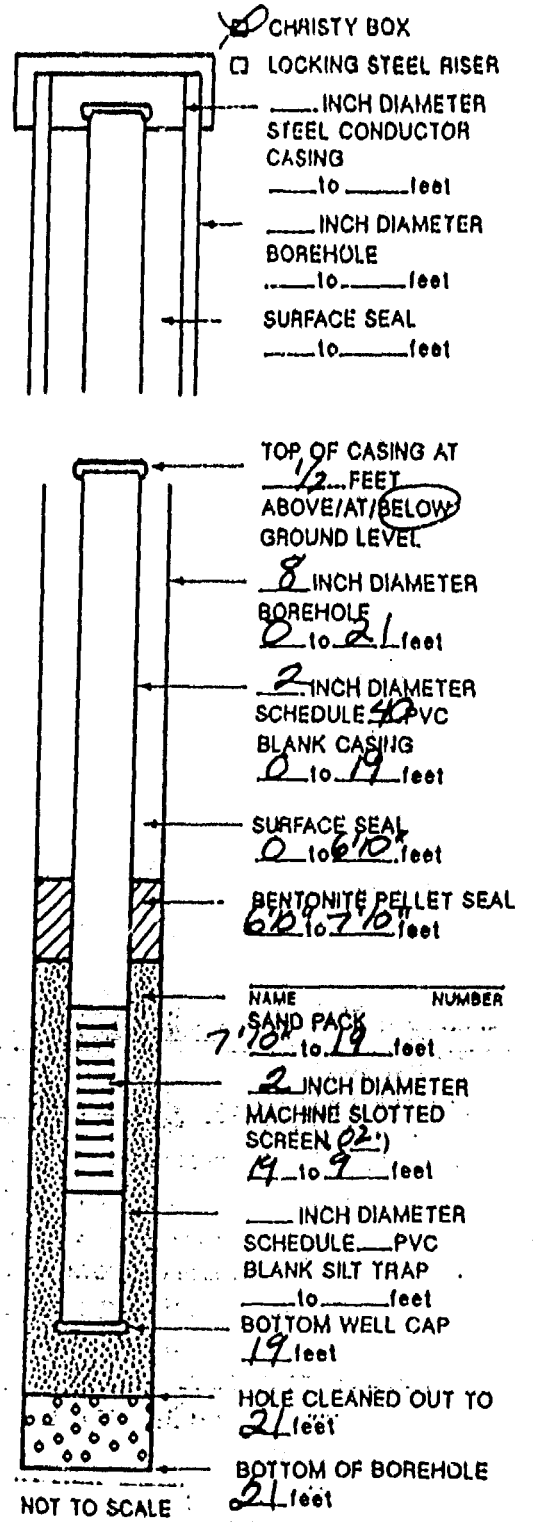
TREMIE PIPE USED? ☒ YES ☐ NO

WELL COVER USED ☐ LOCKING STEEL COVER ☒ CHRISTY BOX ☐ OTHER ___

SILT TRAP USED? ☐ YES ☐ NO

ATT

WELL CONSTRUCTION AND DEVELOPMENT DETAILS



ADDITIONAL INFORMATION:
Caved to 19 feet

JOB NAME Snyder

JOB NUMBER 859 | PROJECT MANAGER RMB

LOGGED BY JSM/TM | EDITED BY JSM

WELL DESIGNATION MW-3 | DATE 8/10/88

DRILLING COMPANY Spectrum

EQUIPMENT: ☐ ___ INCH ROTARY WASH ☒ 8 INCH HOLLOW STEM AUGER ☐ ___ INCH DUAL TUBE | DRILLER Allan | HOURS DRILLED 2.5

VOLUME OF WATER USED DURING DRILLING: 0 GALLONS

METHOD OF DECONTAMINATION PRIOR TO DRILLING: Steam Cleaner

DEVELOPMENT

METHOD OF DEVELOPMENT: Centrifugal Pump

DEVELOPMENT BEGAN: DATE 8/11/88 TIME 1230

YIELD: 10 GPM | TIME: FROM 1230 TO 1245 | DATE: 8/11/88

YIELD: ___ GPM | TIME: FROM ___ TO ___ | DATE: ___

DEVELOPMENT ENDED: DATE 8/11/88 TIME 1245

TOTAL WATER REMOVED DURING DEVELOPMENT: 70 GALLONS

DESCRIPTION OF TURBIDITY AT END OF DEVELOPMENT: ☐ CLEAR ☒ SLIGHTLY CLOUDY ☐ MOD. TURBID ☐ VERY MUDDY

ODOR OF WATER:

WATER DISCHARGED TO: ☒ GROUND SURFACE ☐ TANK TRUCK ☐ DRUMS ☐ STORM SEWERS ☐ STORAGE TANK ☐ OTHER

DEPTH TO WATER AFTER DEVELOPMENT 11.65 FEET

MATERIALS USED

3 SACKS OF Monterey #3 SAND

1 SACKS OF Portland CEMENT

___ GALLONS OF GROUT USED

___ SACKS OF POWERED BENTONITE

25 POUNDS OF BENTONITE PELLETS

9 FEET OF 2 INCH PVC BLANK CASING

10 FEET OF 2 INCH PVC SLOTTED SCREEN

___ FEET OF ___ INCH STEEL CONDUCTOR CASING

GROUT PUMP USED? ☐ YES ☒ NO

TREMIE PIPE USED? ☐ YES ☒ NO

WELL COVER USED ☐ LOCKING STEEL COVER ☒ CHRISTY BOX ☐ OTHER ___

SILT TRAP USED? ☐ YES ☒ NO

ATTACHMENT C-4

Soil & Groundwater Sample Collection & Handling Protocol

ATTACHMENT C-4

SOIL & GROUNDWATER SAMPLE COLLECTION & HANDLING PROTOCOL

INTRODUCTION & PURPOSE

Because reliable and representative test results must be generated from soil and groundwater samples, it is essential to establish a sampling procedure which assures that all samples are:

- Collected by approved and repeatable methods
- Representative of the materials(s) at the desired location and depth
- Uncontaminated by container and sampling equipment

The following sampling protocol is designed to be a guide to the sampling and handling procedures for soil and groundwater samples to be collected. Based on conditions which may be encountered in the field, some modifications to this protocol may be required to fit the needs of an individual site.

SAMPLING PROCEDURES

Groundwater Sampling

Prior to collecting groundwater samples, monitoring wells were purged by bailing until pH, conductivity, and temperature levels stabilize. Wells were purged and groundwater samples were obtained using a Teflon bailer and nylon rope. New nylon rope is used for each well.

The appropriate number of sample containers and type will be used for each sample collected, in accordance with the analytical laboratory requirements and EPA protocol. The bottles will be filled using the bailer. All sample bottles will be pre-cleaned by the supplier according to EPA protocols.

To prevent cross contamination of groundwater samples by the sampling equipment, all equipment used in sampling was washed with a trisodium phosphate solution, triple rinsed with distilled water, and allowed to air dry prior to each use. A sample of the distilled water used

in the final rinse was retained for analysis as part of sample quality assurance.

Soil Sampling

After the soil sampler is driven to the desired depth and the samples are retrieved, each end of the ring containing the soil sample is retained for laboratory analysis will be sealed with Teflon sheeting, covered with plastic end caps, and sealed with PVC tape. All sample containers (tubes and end caps) are steamed cleaned and air dried prior to use. The soil sample recovered in the ring just above the sample retained for chemical analysis is examined in the field for visual and olfactory indications of chemical contamination and used for lithologic description.

The Unified Soil Classification System (USCS) is used to log and describe the soil by the on-site geologist. These logs also include details of the sampling process such as depth, apparent odors, discoloration, and any other factors which may be required to evaluate the presence of contamination at the site.

POST SAMPLING PROCEDURES

One field/travel blank consisting of one sample bottle filled with distilled water accompanies soil and groundwater sample containers at all times, including during transport to and from the site. Distilled water field/travel blanks were analyzed according to the appropriate EPA Methods corresponding to the soil/groundwater sample analyses.

Sample containers were labeled with sample number, project number, date, and the initials of the person collecting the sample. A separate sample collection record was maintained for each groundwater sample collected.

Soil and groundwater samples collected were analyzed by an analytical laboratory certified by the California Department of Health Services (DHS) for complete chemical analysis of hazardous waste as well as drinking water samples. Quality assurance documentation accompanied all analytical reports generated by the laboratory.

The samples were placed in an ice cooler immediately following collection, and remained in the ice cooler until refrigerated at the analytical laboratory. The samples were delivered to the laboratory direct by courier or overnight freight within 48 hours of time of collection. Appropriate chain of custody forms were used for all samples.

ATTACHMENT C-5

Chain-of-Custody and
Environmental Sample Collection Records

Aqua Term Technologies
Consulting Engineers & Scientists

2950 Buskirk Avenue, Suite 120
Walnut Creek, CA 94596
415 934-4884

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CHAIN OF SAMPLE CUSTODY RECORD

Collector: Todd Miller Date Sampled: 8-11-88 Time: 11 am
Location of Sampling: Treat Bella

Project Number: 859 Survey Number:
Sample Type: Water
Container Type and Condition: 40 ml VOAs, 1 L Amber, 1 L plastic
Contract Laboratory Record/Name: Multi-Tech

Sample ID	Field Information
MW1 8-6352	2-40 ml VOAs, 1-1 L Amber, 1-1 L plastic
MW3 8-6353	" " " " , " " " , " "

Analysis Requested: ~~TPH~~ EPA 624, 625 + Metals ~~Purgeable~~
Title 22 - Cite # 17

Results Needed By: Normal turnaround

Contact and results to be sent to: Julie Menack

Travel Blank:	☐ Yes	☑ No	Travel Blank to be Analyzed Separately:	☐ Yes	☑ No
Duplicate Samples:	☐ Yes	☑ No	Duplicates to be Analyzed Separately:	☐ Yes	☑ No
Cleaning Blank:	☐ Yes	☑ No	Cleaning Blank to be Analyzed Separately:	☐ Yes	☑ No
Background Soil Sample:	☐ Yes	☑ No	Background Soil Sample to be Analyzed Separately:	☐ Yes	☑ No

Chain of Custody:

1. T. Miller — 8-12-88
   Field Personnel — Date
2. Jeff Rodriguez — 8-12-88 1:50 pm
   Courier — Date
3. _____ — _____
   Lab — Date

AQUA TERRA Technologies

2950 Buskirk Ave., Suite 120
Walnut Creek, CA 94596
(415) 934-4884

CHAIN OF SAMPLE CUSTODY RECORD

Collector: Todd Miller Date Sampled: 8/16/88 Time: _____

Location of Sampling: 1130 Terra Bella, Mountain View

Project Number: 859 Survey Number: _____

Sample Type: Water

Container Type and Condition: 1 - 1 Liter Bottle (glass) 1 - Liter plastic 2 VOA

Contract Laboratory Record/Name: Multi Tech

Sample ID	Field Information
MW2	Caused wash on sampler

Analysis Requested: 624, 625 & ICP - Metals

Results Needed By: Normal Turnaround

Contact and results to be sent to: Julie S. Menack

Travel Blank: ☐ Yes ☒ No Travel Blank to be Analyzed Separately: ☐ Yes ☒ No

Duplicate Samples: ☐ Yes ☒ No Duplicates to be Analyzed Separately: ☐ Yes ☒ No

Cleaning Blank: ☐ Yes ☒ No Cleaning Blank to be Analyzed Separately ☐ Yes ☒ No

Background Soil Sample: ☐ Yes ☒ No Background Soil Sample to be Analyzed Separately: ☐ Yes ☒ No

Chain of Custody:

Julie S. Menack — 8/18/88 Date

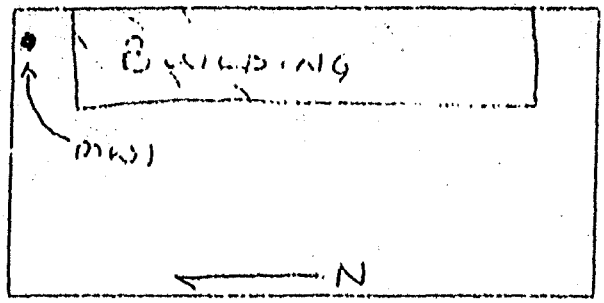
Field Personnel

Courier — 8/18/88 2:35 pm Date

Lab — Date

ENVIRONMENTAL SAMPLE COLLECTION RECORD

Site Plan:



Date: 3/11/05 Time: 2:20 pm Job No: 5442.1 (551)

Sample ID: MW 1 Location: 1130 TIERRA BELLA

Sampling Procedure: WELL WAS DEVELOPED USING A CENTRIFUGAL PUMP W/ FLEX PVC. ~ 80 GAL OF H_2O WAS REMOVED IN SURGES SAMPLES WERE TAKEN (AFTER THE WELL WAS DEVELOPED) WITH A TEFLON BAILER

Water Level: 13.43' ~~pH~~ Temp 16 °C.

Depth to bottom of well: 18.81' ~~Salinity~~ COND: 810

Well Purge Volume: 80 GAL. Turbidity: _____

Purge Water Fate: 55 GAL DRUMS Organic Vapor: _____

Sampling Equipment: TEFLON BAILER, TEFLON AND STAINLESS STEEL BED, FLEX PVC & CENT. PUMP, NYLON CORD,

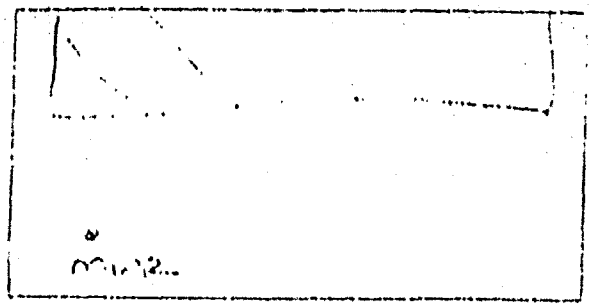
Equipment Cleaning Procedures: ALL EQUIPMENT WAS CLEANED WITH ALCONOX SOLN AND RINSED TWICE WITH DISTILLED H_2O (EXCEPTION, FLEX PVC WAS STEAM CLEANED)

Sampling Handling/Storage: SAMPLES KEPT COOL UNTIL REACHING LAB

Sample Collected By: TODD MILLER & BRAD BENNER

Signature: ~~[illegible]~~ [signature] Title: STAFF ENGINEER

ENVIRONMENTAL SAMPLE COLLECTION RECORD

Site Plan: 

Date: 9/14/88 Time: 1100 Job No: 8 5 9

Sample ID: MW12 Location: TRAN ESSEX

Sampling Procedure: 40 GALLONS OF WATER WAS PURGED FROM WELL DURING DEVELOPMENT, USING A PVC HAND PUMP AN ADDITIONAL 5 GAL WAS REMOVED USING A TEFLON BAILER. A SAMPLE WAS THEN COLLECTED USING THE SAME BAILER

Water Level: 13.10' pH: TEMP 18.5°C

Depth to bottom of well: 18.25' Salinity:

Well Purge Volume: 41.29 GAL Turbidity:

Purge Water Fate: 55 GAL DRUM Organic Vapor: YES

Sampling Equipment: PVC HAND PUMP, TEFLON BAILER, TEFLON AND STAINLESS STEEL B.E.D., NYLON ROPE

Equipment Cleaning Procedures: EQUIPMENT WAS STEAM CLEANED BEFORE USE

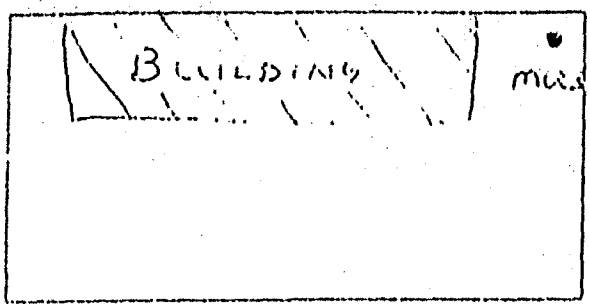
Sampling Handling/Storage: SAMPLES KEPT COLD UNTIL REACHING STORAGE

Sample Collected By: TODD MILLER

Signature: Todd Miller Title: STAFF ENGINEER

ENVIRONMENTAL SAMPLE COLLECTION RECORD

Site Plan:



Date: 8/11/88 Time: 12:45 pm. Job No: 8427

Sample ID: MW3 Location: 1130 TERRA BELLA

Sampling Procedure: WELL WAS DEVELOPED USING A CONTRACTOR'S PUMP W/ FLEX PVC. ~90 GAL OF H_2O WAS REMOVED IN STAGES SAMPLES WERE TAKEN (AFTER THE WELL WAS DEVELOPED) WITH A TEFLON BAILER

Water Level: 11.87 Temp: 17°

pH:

Depth to bottom of well: 18.65 Cond. Salinity: 862

Well Purge Volume: 70 GAL Turbidity:

Purge Water Fate: RETURN Organic Vapor:

Sampling Equipment: TEFLON BAILER, TEFLON & STAINLESS STEEL BED, FLEX PVC & CENT PUMP, NYLON CORD

Equipment Cleaning Procedures: ALL EQUIPMENT WAS CLEANED WITH A TSP SOLN AND RINSED AND RINSED TWICE W/ DISTILLED H_2O (EXCEPTION: FLEX PVC WAS STEAM CLEANED)

Sampling Handling/Storage: SAMPLES KEPT COOL UNTIL PERKING LAB.

Sample Collected By: TODD MILLER & BRAD BENNETT

Signature: Todd Miller Title: STAFF ENGINEER

ATTACHMENT D

Analytical Data

MULTI-TECH, A Division of
Environmental Testing and Certification Corp.
320 Tesconi Circle, Suite C
Santa Rosa, California 95401
707-544-5570

ETC · MULTI-TECH

September 6, 1988

Agua Terra Technologies
Attn: Julie Manack
2950 Buskirk Ave., Ste. 120
Walnut Creek, CA 94596

SAMPLE NUMBER: 8-6352
QC BATCH NUMBER: 88-624-0824/88-624-0902

Date collected: 8-11-88
Date in lab: 8-12-88
Date analyzed: 8-24-88/9-02-88
Collected by: Client
Matrix: Liquid

CLIENT ID: TERRA BELLA, PROJECT #859, MW1

EPA Method 624 Purgeable Organics

	Result (ug/L)	Detection Limit (ug/L)
Acetone	ND	10
Benzene	ND	5
Bromodichloromethane	ND	5
Bromoform	ND	5
Bromomethane	ND	10
2-Butanone	ND	10
Carbon disulfide	ND	5
Carbon tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	10
2-Chloroethylvinyl ether	ND	10
Chloroform	ND	5
Chloromethane	ND	10
Dibromochloromethane	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethane	ND	5
1,1-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
trans-1,3-Dichloropropene	ND	5
Ethyl benzene	ND	5
2-Hexanone	ND	10
Methylene chloride	ND	5
4-Methyl-2-Pentanone	ND	10
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5

A Subsidiary of Environmental Treatment and Technologies Corp.
The Environmental Services Company

Sample No. 8-6352, EPA Method 624 Analysis (con't)

	Result (ug/L)	Detection Limit (ug/L)
1,1,1-Trichloroethane	ND	5
1,1,2-Trichloroethane	ND	5
Trichloroethene	13	5
Trichlorofluoromethane	ND	5
Vinyl acetate	ND	10
Vinyl chloride	ND	10
Total Xylenes	ND	5

ND = None Detected

Analytical Director

jmt

MULTI-TECH, A Division of
Environmental Testing and Certification Corp
320 Tesconi Circle, Suite C
Santa Rosa, California 95401
707-544-5570

ETC · MULTI·TECH

September 6, 1988

Agua Terra Technologies
Attn: Julie Manack
2950 Buskirk Ave., Ste. 120
Walnut Creek, CA 94596

SAMPLE NUMBER: 8-6481
QC BATCH NUMBER: 88-624-0824/88-624-0902

Date collected: 8-16-88
Date in lab: 8-18-88
Date analyzed: 8-24-88/9-02-88
Collected by: Client
Matrix: Liquid

CLIENT ID: 1130 TERRA BELLA, MOUNTAIN VIEW, PROJECT #859, MW2

EPA Method 624 Purgeable Organics

	Result (ug/L)	Detection Limit (ug/L)
Acetone	ND	10
Benzene	ND	5
Bromodichloromethane	ND	5
Bromoform	ND	5
Bromomethane	ND	10
2-Butanone	ND	10
Carbon disulfide	ND	5
Carbon tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	10
2-Chloroethylvinyl ether	ND	10
Chloroform	ND	5
Chloromethane	ND	10
Dibromochloromethane	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethane	ND	5
1,1-Dichloroethene	ND	5
trans-1,2-Dichloroethene	22	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
trans-1,3-Dichloropropene	ND	5
Ethyl benzene	ND	5
2-Hexanone	ND	10
Methylene chloride	ND	5
4-Methyl-2-Pentanone	ND	10
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5

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The Environmental Services Company

Sample No. 8-6481, EPA Method 624 Analysis (con't)

	Result (ug/L)	Detection Limit (ug/L)
1,1,1-Trichloroethane	ND	5
1,1,2-Trichloroethane	ND	5
Trichloroethene	240	5
Trichlorofluoromethane	ND	5
Vinyl acetate	ND	10
Vinyl chloride	ND	10
Total Xylenes	ND	5

ND = None Detected

Analytical Director

jmt

Environmental Testing and Certification Corp.
820 Terroni Circle, Suite G
Santa Rosa, California 95401
707-544-5570

ETC · MULTI-TECH

September 6, 1988

Agua Terra Technologies
Attn: Julie Menack
2950 Buskirk Ave., Ste. 120
Walnut Creek, CA 94596

SAMPLE NUMBER: 8-6353
QC BATCH NUMBER: 88-624-0824/88-624-0902

Date collected: 8-11-88
Date in lab: 8-12-88
Date analyzed: 8-24-88/9-02-88
Collected by: Client
Matrix: Liquid

CLIENT ID: TERRA BELLA, PROJECT #859, MW3

EPA Method 624 Purgeable Organics

	Result (ug/L)	Detection Limit (ug/L)
Acetone	ND	10
Benzene	ND	5
Bromodichloromethane	ND	5
Bromoform	ND	5
Bromomethane	ND	10
2-Butanone	ND	10
Carbon disulfide	ND	5
Carbon tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	10
2-Chloroethylvinyl ether	ND	10
Chloroform	ND	5
Chloromethane	ND	10
Dibromochloromethane	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethane	ND	5
1,1-Dichloroethene	ND	5
trans-1,2-Dichloroethene	6	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
trans-1,3-Dichloropropene	ND	5
Ethyl benzene	ND	5
2-Hexanone	ND	10
Methylene chloride	ND	5
4-Methyl-2-Pentanone	ND	10
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5

A Subsidiary of Environmental Treatment and Technologies Corp
The Environmental Services Company

Sample No. 8-6353, EPA Method 624 Analysis (con't)

	Result (ug/L)	Detection Limit (ug/L)
1,1,1-Trichloroethane	ND	5
1,1,2-Trichloroethane	ND	5
Trichloroethene	33	5
Trichlorofluoromethane	ND	5
Vinyl acetate	ND	10
Vinyl chloride	ND	10
Total Xylenes	ND	5

ND = None Detected

Cheryl G. Smith
Analytical Director

jmt

MULTI · TECH, A Division of
Environmental Testing and Certification Corp.
320 Tesconi Circle, Suite G
Santa Rosa, California 95401
707-544-5570

ETC · MULTI·TECH

September 6, 1988

Aqua Terra Technologies
Attn: Julie Menack
2950 Buskirk Ave., Ste. 120
Walnut Creek, CA 94596

SAMPLE NUMBER: 8-6352
QC BATCH NUMBER: 88-624-0824/88-624-0902

Date collected: 8-11-88
Date in lab: 8-12-88
Date analyzed: 8-24-88/9-02-88
Collected by: Client
Matrix: Liquid

CLIENT ID: TERRA BELLA, PROJECT #859, MW1

EPA Method 624 Purgeable Organics

	Result (ug/L)	Detection Limit (ug/L)
Acetone	ND	10
Benzene	ND	5
Bromodichloromethane	ND	5
Bromoform	ND	5
Bromomethane	ND	10
2-Butanone	ND	10
Carbon disulfide	ND	5
Carbon tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	10
2-Chloroethylvinyl ether	ND	10
Chloroform	ND	5
Chloromethane	ND	10
Dibromochloromethane	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethane	ND	5
1,1-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
trans-1,3-Dichloropropene	ND	5
Ethyl benzene	ND	5
2-Hexanone	ND	10
Methylene chloride	ND	5
4-Methyl-2-Pentanone	ND	10
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5

A Subsidiary of Environmental Treatment and Technologies Corp.
The Environmental Services Company

Sample No. 8-6352, EPA Method 624 Analysis (con't)

	Result (ug/L)	Detection Limit (ug/L)
1,1,1-Trichloroethane	ND	5
1,1,2-Trichloroethane	ND	5
Trichloroethene	13	5
Trichlorofluoromethane	ND	5
Vinyl acetate	ND	10
Vinyl chloride	ND	10
Total Xylenes	ND	5

ND = None Detected

Analytical Director

jmt

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320 Tesconi Circle, Suite G
Santa Rosa, California 95401
707-544-5570

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September 6, 1988

Aqua Terra Technologies
Attn: Julie Menack
2950 Buskirk Ave., Ste. 120
Walnut Creek, CA 94596

SAMPLE NUMBER: 8-6481
QC BATCH NUMBER: 88-624-0824/88-624-0902

Date collected: 8-16-88
Date in lab: 8-18-88
Date analyzed: 8-24-88/9-02-88
Collected by: Client
Matrix: Liquid

CLIENT ID: 1130 TERRA BELLA, MOUNTAIN VIEW, PROJECT #859, MW2

EPA Method 624 Purgeable Organics

	Result (ug/L)	Detection Limit (ug/L)
Acetone	ND	10
Benzene	ND	5
Bromodichloromethane	ND	5
Bromoform	ND	5
Bromomethane	ND	10
2-Butanone	ND	10
Carbon disulfide	ND	5
Carbon tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	10
2-Chloroethylvinyl ether	ND	10
Chloroform	ND	5
Chloromethane	ND	10
Dibromochloromethane	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethane	ND	5
1,1-Dichloroethene	ND	5
trans-1,2-Dichloroethene	22	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
trans-1,3-Dichloropropene	ND	5
Ethyl benzene	ND	5
2-Hexanone	ND	10
Methylene chloride	ND	5
4-Methyl-2-Pentanone	ND	10
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5

A Subsidiary of Environmental Treatment and Technologies Corp.
The Environmental Services Company

Sample No. 8-6481, EPA Method 624 Analysis (con't)

	Result (ug/L)	Detection Limit (ug/L)
1,1,1-Trichloroethane	ND	5
1,1,2-Trichloroethane	ND	5
Trichloroethene	240	5
Trichlorofluoromethane	ND	5
Vinyl acetate	ND	10
Vinyl chloride	ND	10
Total Xylenes	ND	5

ND = None Detected

Analytical Director

jmt

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Environ .tal Testing and Certification Corp.
320 Tesconi Circle, Suite C
Santa Rosa, California 95401
707-544-5570

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September 6, 1988

Aqua Terra Technologies
Attn: Julie Menack
2950 Buskirk Ave., Ste. 120
Walnut Creek, CA 94596

SAMPLE NUMBER: 8-6353
QC BATCH NUMBER: 88-624-0824/88-624-0902

Date collected: 8-11-88
Date in lab: 8-12-88
Date analyzed: 8-24-88/9-02-88
Collected by: Client
Matrix: Liquid

CLIENT ID: TERRA BELLA, PROJECT #859, MW3

EPA Method 624 Purgeable Organics

	Result (ug/L)	Detection Limit (ug/L)
Acetone	ND	10
Benzene	ND	5
Bromodichloromethane	ND	5
Bromoform	ND	5
Bromomethane	ND	10
2-Butanone	ND	10
Carbon disulfide	ND	5
Carbon tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	10
2-Chloroethylvinyl ether	ND	10
Chloroform	ND	5
Chloromethane	ND	10
Dibromochloromethane	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethane	ND	5
1,1-Dichloroethene	ND	5
trans-1,2-Dichloroethene	6	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
trans-1,3-Dichloropropene	ND	5
Ethyl benzene	ND	5
2-Hexanone	ND	10
Methylene chloride	ND	5
4-Methyl-2-Pentanone	ND	10
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5

Sample No. 8-6353, EPA Method 624 Analysis (con't)

	Result (ug/L)	Detection Limit (ug/L)
1,1,1-Trichloroethane	ND	5
1,1,2-Trichloroethane	ND	5
Trichloroethene	33	5
Trichlorofluoromethane	ND	5
Vinyl acetate	ND	10
Vinyl chloride	ND	10
Total Xylenes	ND	5

ND = None Detected

Analytical Director

jmt

MULTI · TECH, A Division of
Environ.. ..ntal Testing and Certification Corp.
320 Tesconi Circle, Suite G
Santa Rosa, California 95401
707-544-5570

ETC · MULTI·TECH

August 31, 1988

Aqua Terra Technologies
Attn: Wane Schneiter
2950 Buskirk Ave., Ste. 120
Walnut Creek, CA 94596

SAMPLE NUMBER: 8-6352
CLIENT ID: MW1, Terra Bella, Project #859

Date collected: 8-11-88
Date in lab: 8-12-88
Date preserved: 8-12-88
Collected by: Client
Matrix: Liquid

PRIORITY POLLUTANT METALS

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	Result mg/L	Detection Limit mg/L
Total Antimony	*	8-18-88	200.7	8-22-88	2	1
Total Arsenic	206.3	8-18-88	206.3	8-25-88	0.066	0.005
Total Barium	*	8-18-88	200.7	8-22-88	20	0.1
Total Beryllium	*	8-18-88	200.7	8-22-88	0.01	0.01
Total Cadmium	*	8-18-88	200.7	8-22-88	ND	0.1
Total Chromium	*	8-18-88	200.7	8-22-88	2.1	0.1
Total Cobalt	*	8-23-88	200.7	8-25-88	0.7	0.1
Total Copper	*	8-18-88	200.7	8-22-88	1.8	0.1
Total Lead	*	8-18-88	239.1	8-23-88	0.1	0.1
Total Mercury	245.1	8-18-88	245.1	8-19-88	0.004	0.001
Total Molybdenum	*	8-18-88	200.7	8-22-88	0.3	0.1
Total Nickel	*	8-18-88	200.7	8-22-88	2.9	0.1
Total Selenium	270.3	8-18-88	270.3	8-25-88	0.011	0.001
Total Silver	*	8-18-88	272.1	8-23-88	0.07	0.05
Total Thallium	*	8-18-88	279.1	8-23-88	ND	0.5
Total Vanadium	*	8-18-88	200.7	8-22-88	1.8	0.1
Total Zinc	*	8-18-88	200.7	8-22-88	1.6	0.1

*PREP - Metals; Section 4.1.3 of EPA 600/4-79-020 Methods for Chemical Analysis of Water and Wa..e, March 1983.

ND = None Detected

Cheryl A. Smith
Analytical Director

jmt

MULTI · TECH, A Division of
Environmental Testing and Certification Corp.
320 Tesconi Circle, Suite C
Santa Rosa, California 95401
707-544-5570

ETC · MULTI·TECH

September 1, 1988

Aqua Terra Technologies
Attn: Wane Schneiter/Julie S. Henack
2950 Buskirk Ave., Ste. 120
Walnut Creek, CA 94596

SAMPLE NUMBER: 8-6481
CLIENT ID: MW2, #059, 1130 Tera Bella, Mountain View

Date collected: 8-16-88
Date in lab: 8-18-88
Date preserved: 8-21-88
Collected by: Client (Todd Miller)
Matrix: Liquid

PRIORITY POLLUTANT METALS

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	Result mg/L	Detection Limit mg/L
Total Antimony	*	8-23-88	200.7	8-25-88	ND	1
Total Arsenic	206.3	8-22-88	206.3	8-25-88	0.080**	0.005
Total Barium	*	8-23-88	200.7	8-25-88	16	0.1
Total Beryllium	*	8-23-88	200.7	8-25-88	0.02	0.01
Total Cadmium	*	8-23-88	200.7	8-25-88	ND	0.1
Total Chromium	*	8-23-88	200.7	8-25-88	3.1	0.1
Total Cobalt	*	8-23-88	200.7	8-25-88	0.7	0.1
Total Copper	*	8-23-88	200.7	8-25-88	2.1	0.1
Total Lead	*	8-23-88	239.1	8-26-88	0.1	0.1
Total Mercury	245.1	8-24-88	245.1	8-25-88	0.003	0.001
Total Molybdenum	*	8-23-88	200.7	8-25-88	ND	0.1
Total Nickel	*	8-23-88	200.7	8-25-88	2.9	0.1
Total Selenium	270.3	8-22-88	270.3	8-25-88	0.018**	0.001
Total Silver	*	8-27-88	272.1	8-30-88	ND**	0.05
Total Thallium	*	8-23-88	279.1	8-26-88	0.6	0.5
Total Vanadium	*	8-23-88	200.7	8-25-88	2.8	0.1
Total Zinc	*	8-23-88	200.7	8-25-88	2.1	0.1

*PREP - Metals; Section 4.1.3 of EPA 600/4-79-020 Methods for Chemical Analysis of Water and Waste, March 1983.

**The recoveries on replicate spikes are not within two standard deviations of our data base average, indicating matrix interferences.

ND = None Detected

Analytical Director

jmb

MULTI · TECH, A Division of
Environmental Testing and Certification Corp.
320 Tesconi Circle, Suite G
Santa Rosa, California 95401
707.544.5570

ETC · MULTI·TECH

August 31, 1988

Aqua Terra Technologies
Attn: Wane Schneiter/Julie Nervack
2950 Buskirk Ave., Ste. 120
Walnut Creek, CA 94596

SAMPLE NUMBER: 8-6353
CLIENT ID: MW3, Terra Bella, Project #859

Date collected: 8-11-88
Date in lab: 8-12-88
Date preserved: 8-12-88
Collected by: Client
Matrix: Liquid

PRIORITY POLLUTANT METALS

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	Result mg/L	Detection Limit mg/L
Total Antimony	*	8-18-88	200.7	8-22-88	ND	1
Total Arsenic	206.3	8-22-88	206.3	8-25-88	0.030	0.005
Total Barium	*	8-18-88	200.7	8-22-88	9.4	0.1
Total Beryllium	*	8-18-88	200.7	8-22-88	ND	0.01
Total Cadmium	*	8-18-88	200.7	8-22-88	ND	0.1
Total Chromium	*	8-18-88	200.7	8-22-88	1.0	0.1
Total Cobalt	*	8-23-88	200.7	8-25-88	0.3	0.1
Total Copper	*	8-18-88	200.7	8-22-88	0.9	0.1
Total Lead	*	8-18-88	239.1	8-23-88	ND	0.1
Total Mercury	245.1	8-18-88	245.1	8-19-88	0.001	0.001
Total Molybdenum	*	8-18-88	200.7	8-22-88	0.2	0.1
Total Nickel	*	8-18-88	200.7	8-22-88	1.1	0.1
Total Selenium	270.3	8-22-88	270.3	8-25-88	0.004	0.001
Total Silver	*	8-18-88	272.1	8-23-88	ND	0.05
Total Thallium	*	8-18-88	279.1	8-23-88	ND	0.5
Total Vanadium	*	8-18-88	200.7	8-22-88	0.9	0.1
Total Zinc	*	8-18-88	200.7	8-22-88	0.6	0.1

*PREP - Metals; Section 4.1.3 of EPA 600/4-79-020 Methods for Chemical Analysis of Water and Waste, March 1983.

ND = None Detected

Analytical Director

jmt

MULTI · TECH, A Division of
Environmental Testing and Certification Corp.
320 Tesconi Circle, Suite C
Santa Rosa, California 95401
707-544-5570

ETC · MULTI·TECH

August 31, 1988

Aqua Terra Technologies
Attn: Wane Schneiter /Julie Menack
2950 Buskirk Ave., Ste. 120
Walnut Creek, CA 94596

SAMPLE NUMBER: 8-6352
QC BATCH NUMBER: 88-233

CLIENT ID: MW1, TERRA BELLA, PROJECT #859

Date collected: 8-11-88
Date in lab: 8-12-88
Date extracted: 8-17-88
Date analyzed: 8-20-88
Collected by: Client
Matrix: Liquid

EPA METHOD 625: BASE/NEUTRALS AND ACIDS

	Results (ug/L)	Detection Limits (ug/L)
ACENAPHTHENE	ND	10
ACENAPHTHYLENE	ND	10
ANTHRACENE	ND	10
BENZO(A)ANTHRACENE	ND	10
BENZO(B)FLUORANTHENE	ND	10
BENZO(K)FLUORANTHENE	ND	10
BENZO(G,H,I)PERYLENE	ND	10
BENZO(A)PYRENE	ND	10
BENZOIC ACID	ND	50
BENZYL ALCOHOL	ND	10
4-BROMOPHENYL-PHENYLETHER	ND	10
BUTYLBENZYLPHTHALATE	ND	10
DI-N-BUTYLPHTHALATE	ND	10
4-CHLOROANILINE	ND	10
BIS(2-CHLOROETHOXY)METHANE	ND	10
BIS(2-CHLOROETHYL)ETHER	ND	10
BIS(2-CHLOROISOPPROPYL)ETHER	ND	10
4-CHLORO-3-METHYLPHENOL	ND	10
2-CHLORONAPHTHALENE	ND	10
2-CHLOROPHENOL	ND	10
4-CHLOROPHENYL-PHENYLETHER	ND	10
CHRYSENE	ND	10
DIBENZO(A,H)ANTHRACENE	ND	10
DIBENZOFURAN	ND	10
1,2-DICHLOROBENZENE	ND	10
1,3-DICHLOROBENZENE	ND	10
1,4-DICHLOROBENZENE	ND	10
3,3'-DICHLOROBENZIDINE	ND	20

Sample No. 8-6352, EPA 625 Analysis (con't)

	Results (ug/L)	Detection Limits (ug/L)
2,4-DICHLOROPHENOL	ND	10
DIETHYLPHTHALATE	ND	10
2,4-DIMETHYLPHENOL	ND	10
DIMETHYL PHTHALATE	ND	10
4,6-DINITRO-2-METHYLPHENOL	ND	50
2,4-DINITROPHENOL	ND	50
2,4-DINITROTOLUENE	ND	10
2,6-DINITROTOLUENE	ND	10
BIS(2-ETHYLHEXYL) PHTHALATE	ND	10
FLUORANTHENE	ND	10
FLUORENE	ND	10
HEXCHLOROBUTADIENE	ND	10
HEXACHLOROBENZENE	ND	10
HEXACHLOROCYCLOPENTADIENE	ND	10
HEXACHLOROETHANE	ND	10
INDENO(1,2,3-CD) PYRENE	ND	10
ISOPHORONE	ND	10
2-METHYLNAPHTHALENE	ND	10
2-METHYLPHENOL	ND	10
4-METHYLPHENOL	ND	10
NAPHTHALENE	ND	10
2-NITROANILINE	ND	50
3-NITROANILINE	ND	50
4-NITROANILINE	ND	50
NITROBENZENE	ND	10
2-NITROPHENOL	ND	10
4-NITROPHENOL	ND	50
N-NITROSODIPHENYLAMINE	ND	10
N-NITROSO-DI-N-PROPYLAMINE	ND	10
DI-N-OCTYL PHTHALATE	ND	10
PENTACHLOROPHENOL	ND	50
PHENANTHRENE	ND	10
PHENOL	ND	10
PYRENE	ND	10
1,2,4-TRICHLOROBENZENE	ND	10
2,4,5-TRICHLOROPHENOL	ND	10
2,4,6-TRICHLOROPHENOL	ND	10

ND = None Detected

Analytical Director

jmt

MULTI · TECH, A Division of
Environmental Testing and Certification Corp.
320 Tesconi Circle, Suite G
Santa Rosa, California 95401
707-544-5570

ETC · MULTI·TECH

August 31, 1988

Aqua Terra Technologies
Attn: Wane Schneiter/Julie Menack
2950 Buskirk Ave., Ste. 120
Walnut Creek, CA 94596

SAMPLE NUMBER: 8-6353
QC BATCH NUMBER: 88-233

CLIENT ID: MW3, TERRA BELLA, PROJECT #859

Date collected: 8-11-88
Date in lab: 8-12-88
Date extracted: 8-17-88
Date analyzed: 8-20-88
Collected by: Client
Matrix: Liquid

EPA METHOD 625: BASE/NEUTRALS AND ACIDS

	Results (ug/L)	Detection Limits (ug/L)
ACENAPHTHENE	ND	10
ACENAPHTHYLENE	ND	10
ANTHRACENE	ND	10
BENZO(A)ANTHRACENE	ND	10
BENZO(B)FLUORANTHENE	ND	10
BENZO(K)FLUORANTHENE	ND	10
BENZO(G,H,I)PERYLENE	ND	10
BENZO(A)PYRENE	ND	10
BENZOIC ACID	ND	50
BENZYL ALCOHOL	ND	10
4-BROMOPHENYL-PHENYLETHER	ND	10
BUTYLBENZYLPHTHALATE	ND	10
DI-N-BUTYLPHTHALATE	ND	10
4-CHLOROANILINE	ND	10
BIS(2-CHLOROETHOXY)METHANE	ND	10
BIS(2-CHLOROETHYL)ETHER	ND	10
BIS(2-CHLOROISOPPROPYL)ETHER	ND	10
4-CHLORO-3-METHYLPHENOL	ND	10
2-CHLORONAPHTHALENE	ND	10
2-CHLOROPHENOL	ND	10
4-CHLOROPHENYL-PHENYLETHER	ND	10
CHRYSENE	ND	10
DIBENZO(A,H)ANTHRACENE	ND	10
DIBENZOFURAN	ND	10
1,2-DICHLOROBENZENE	ND	10
1,3-DICHLOROBENZENE	ND	10
1,4-DICHLOROBENZENE	ND	10
3,3'-DICHLOROBENZIDINE	ND	20

Sample No. 8-6353, EPA 625 Analysis (con't)

	Results (ug/L)	Detection Limits (ug/L)
2,4-DICHLOROPHENOL	ND	10
DIETHYLPHTHALATE	ND	10
2,4-DIMETHYLPHENOL	ND	10
DIMETHYL PHTHALATE	ND	10
4,6-DINITRO-2-METHYLPHENOL	ND	50
2,4-DINITROPHENOL	ND	50
2,4-DINITROTOLUENE	ND	10
2,6-DINITROTOLUENE	ND	10
BIS(2-ETHYLHEXYL) PHTHALATE	ND	10
FLUORANTHENE	ND	10
FLUORENE	ND	10
HEXCHLOROBUTADIENE	ND	10
HEXACHLOROBENZENE	ND	10
HEXACHLOROCYCLOPENTADIENE	ND	10
HEXACHLOROETHANE	ND	10
INDENO(1,2,3-CD) PYRENE	ND	10
ISOPHORONE	ND	10
2-METHYLNAPHTHALENE	ND	10
2-METHYLPHENOL	ND	10
4-METHYLPHENOL	ND	10
NAPHTHALENE	ND	10
2-NITROANILINE	ND	50
3-NITROANILINE	ND	50
4-NITROANILINE	ND	50
NITROBENZENE	ND	10
2-NITROPHENOL	ND	10
4-NITROPHENOL	ND	50
N-NITROSODIPHENYLAMINE	ND	10
N-NITROSO-DI-N-PROPYLAMINE	ND	10
DI-N-OCTYL PHTHALATE	ND	10
PENTACHLOROPHENOL	ND	50
PHENANTHRENE	ND	10
PHENOL	ND	10
PYRENE	ND	10
1,2,4-TRICHLOROBENZENE	ND	10
2,4,5-TRICHLOROPHENOL	ND	10
2,4,6-TRICHLOROPHENOL	ND	10

ND = None Detected

jmt

Analytical Director

MULTI - TECH, A Division of
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320 Tesconi Circle, Suite C
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707-544-5570

ETC · MULTI·TECH

Quality Assurance Summary

Analysis EPA Method 625: Base/Neutrals and Acids

Batch: 88-233

Date of analysis: August 24, 1988

Spiking Summary

	Blank Spike Rec. %	Blank Spike Dup %	RPD %	Matrix Spike Rec. %	Matrix Spike Dup %	RPD %
1,2,4-Trichlorobenzene	28	38	30	50	45	10
Acenapthene	40	50	22	54	53	2
2,4-Dinitrotoluene	35	42	18	48	71	38
Di-n-butylphthalate	70	86	21	82	76	8
Pyrene	70	88	23	78	73	7
n-Nitroso-Di-n-propylamine	53	85	46	88	75	16
1,4-Dichlorobenzene	26	48	59	53	45	16
Pentachlorophenol	56	45	22	62	57	8
Phenol	27	31	14	31	35	12
2-Chlorophenol	53	55	4	54	61	12
4-Chloro-3-Methylphenol	72	76	5	69	70	1
4-Nitrophenol	28	30	7	41	24	52

Surrogate Recovery Summary

	Nitro benzene d5 %	2-Fluoro biphenyl %	Ter phenyl d14 %	Phenol d5 %	2-Fluoro phenol %	2,4,6-Tribromo phenol %
Method Blank	48	48	106	26	38	62
MS	80	66	106	37	48	89
MSD	68	60	100	41	58	89
8-6294	46	46	89	18	30	35
8-6293	82	74	92	18	30	40
8-6296	40	41	66	21	35	66
8-6295	53	52	94	17	26	21
8-6352	44	50	36	10	13	62
8-6353	38	48	72	10	15	97

ms = matrix spike
msd = matrix spike duplicate

ATTACHMENT D-1

Summary Table

ATT

Table D-1. Groundwater Analytical Organics Data Summary[a], 1130 Terra Bella Avenue Mountain View, CA

Sample	EPA Method 625 Compounds	EPA Method 624 Compounds	
		TCA[c]	1,2-DCE[d]
MW-1	N.D.[b]	13	N.D.
MW-2	N.D.	240	22
MW-3	N.D.	33	6
DHS Action Level[e]	---	5	16
EPA MCL[f]	---	5	---
EPA RMCL[f]	---	Zero	---

a. Concentrations expressed as micrograms per liter (ug/L) or parts per billion (ppb).
b. N.D. = Below analytical detection limit.
c. TCE = trichloroethylene
d. 1,2-DCE= trans-1,2-dichlorethylene
e. California Department of Health Services (DHS) State Action Level for drinking water, June 1986.
f. United State Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) or Recommended Maximum Contaminant Level (RMCL).

ATTACHMENT E

Standard Conditions and
Schedule of Charges

ATT

STANDARD CONDITIONS

1. Invoices

Consultant will submit invoices to Client monthly and a final bill upon completion of services. Billings are payable upon receipt unless other arrangements, confirmed in writing by Consultant, have been made. A finance charge of 1-1/2% per month will be payable on accounts not paid within 30 days. Any attorneys' fees or other costs incurred collecting any delinquent amount shall be paid by the Client.

2. Services by Client

Client will provide work site access, obtain all permits, provide all legal services in connection with projects, and provide environmental impact reports and energy assessments unless specifically included in work scope. Client shall pay costs of checking and inspection, soil engineering, testing, surveying, and all other fees not specifically covered by terms of this agreement.

3. Services During Construction

Any construction inspection or testing provided by Consultant is for determining contractor's compliance with functional provisions of project specifications only. Consultant in no way guarantees or insures contractor's work nor assumes responsibility for methods or appliances used by contractor, for jobsite safety or for contractor's compliance with laws and regulations. Client agrees that in accordance with generally accepted construction practices, contractor will be required to assume sole and complete responsibility for jobsite conditions during the course of project related construction, including safety of all persons and property and that this responsibility shall be continuous and not limited to normal working hours.

4. Cost Estimates

Any statements of cost furnished by Consultant are predicted costs and are based on professional opinions and judgement. Consultants are not responsible for construction cost fluctuations due to bidding conditions and other factors not anticipated at the time a particular cost estimate was prepared.

5. Standard of Care

Services performed by Consultant will be conducted in a manner consistent with that level of care and skill ordinarily exercised by other members of the environmental consulting profession currently practicing under similar conditions. No other warranty, expressed or implied, is made.

6. Limitation of Liability

Consultant's liability for damages, loss, or injury due to professional negligence will be limited to a sum not to exceed $50,000 or the Consultant's fee, whichever is lesser.

ATT

SCHEDULE OF CHARGES

Services	Hourly Rate
Principal Scientist/Engineer	$110
Senior Scientist/Engineer	$100
Engineer-Scientist, Grade 1	$ 80
Engineer-Scientist, Grade 2	$ 70
Engineer-Scientist, Grade 3	$ 60
Technician, Grade 1	$ 50
Technician, Grade 2	$ 35
Drafter	$ 35
Word Processor	$ 35
Clerical	$ 25
Computer Time	$ 20

Direct Expenses

Reimbursement for expenses directly resulting from services provided will be based on actual cost plus fifteen percent for administration and management.

Representative direct expenses include:

* Costs of subconsultants
* Laboratory costs
* Costs of special fees (insurance, permits, etc.)
* Costs and/or rental fees of special equipment
* Costs of long distance telephone calls
* Costs for authorized travel, including subsistence, outside the Bay Area
* Costs for photocopying
* Other expenses:

  Fax @ $1.00/page
  In-house copying @ $0.20/page
  Direct automobile mileage $0.25/mile

Rev. 9/1/88

Attachment II.

ATTACHMENT 11

CHEMICAL INVENTORY
9/29/89

AREA A (ACIDS)

Company	Description	Qty.
Sel Rex	Lectro-Nic 1003S Anode Activator (5x2)	10 GAL
Sel Rex	Lectro-Nic 1003S Make-up (5x2)	65 GAL
Lea Ronal	Auronal 6 Acid Solution (4x1)	4 GAL
Lea Ronal	Auronal Strike GP Make-up Liquid (5x2)	10 GAL
Lea Ronal	Auronal 6 Complexor (5x1)	5 GAL
Lea Ronal	Auronal 6 Brightener Solution (1x2)	2 GAL
Shipley	Tinposit LT-26 (1x25LBS; 1x20LBS)	45 LBS
Fisher	Phosphoric Acid (1x1 4 2x4 + 4x4LIT)	25 LIT
Sel Ren	Lectro Nic 1003S Replenisher (1x5)	5 GAL
Olin	Sulfuric Acid UN1830 (1/2x1)	1/2 GAL
RD Chemical	Sodium Hypophosphite (1x50)	50 LBS
Shipley	Tinposit LT-26 (15LBS + 1x25LBS)	40 LBS
Olin	Hydrochloric Acid UN1789 (4x1LIT+3+4x1+2)	13 LIT
Piquet	Muriatic Acid UN1789 (9x1)	9 GAL
Olin	Sulfuric Acid UN1830 (4x1x4)	16 GAL
Fisher	Boric Acid (10KGx1)	10 KG
Lea Ronal	Auronal 6 Replenisher (4x1LIT)	4 LIT
	Hydrochloric Acid	1 GAL
	Auronal 6 Makeup	5 GAL
Fisher (08800-052)	Cupric Sulfate NA9188 (1KGx1)	1 KG
Fisher (08800-052)	Iron Ref. Solution, Corrosive liq. UN1760 (500x1)	1/2 LIT
Fisher (08800-052)	Potassium Permanganate UN1490 (1/2KGx1)	500 GM
Baker Brothers	Acetic Acid (4x1)	4 GAL
Olin	Nitric Acid (2x1)	2 GAL
Mallinckrodt	Hydrochloric Acid (3x1)	3 GAL
Fisher	Tin Reference Sol. (1x1)	1 LIT
Japan	OPC Cleaner 91 (1x4)	4 GAL
Japan	OPC Cleaner 95 (1x1) UN1760	
	Ferric Chloride (2x1+1/2x1)	2-1/2 LIT
	Cupric Chloride (1/2 x1)	1/2 LBS
Dupont	Versa-clean 400 (cleaner) NA1760 corr. (1x5)	5 GAL
RD Chemical	Circuti-prep (mild acid cleaner) (1x5)	5 GAL
Fisher	Buffer solution Ph4 (2x500 ml)	1 LIT
Fisher	Buffer solution Ph7 (3x500 ml)	1-1/2 LIT
Rohm & Haas	CAT Ion - Ion Exchg. 120 (30x1)	30 LBS

Company Name	Description	Qty.
Olin	Potassium Permanganate (2x1)	2 LBS
Mallinckrodt	Nitric Acid (12x500ml)	6 LIT
Fisher	N/10 Hydrochloric Acid UN1789 (4x4)	16 LIT
Fisher	Citric Acid Monohydrate (10KGx2-1/2)	25 KG
HAHC	Copper Reagent (5 ea. ~1/2LB)	5 EA
Fisher	N/10 Silver Nitrate Solut. (4x1)	4 LIT
So. CA Chemicals	Ferric Chloride UN2582 (15x1)	15 GAL
	Chromium Trioxide (Chromic Acid)(1x100ml)	100 ml
	Hydrofluroic acid/reagent grade (1x1)	1 pt
	Formic Acid (1x1)	1 pt
	Hydrogen Peroxide (30%) (1x1)	1 pt
	Copper Gleam PCM (1x1)	1 GAL
	Potassium Permanganate (1x500)	500 gm
	Potassium Meta Bisulfite (1x500)	500 gm
	Nitrobenzesulfonic adic salt (1x500)	500 gm
	Potassium Dichromate (1x500)	500 gm
	Chromium Trioxide (1x500)	500 gm
	Copper Sulfate (2.5KG x 3)	
	Chloride Standard	

AREA B (CAUSTICS)

Shipley	Neutra-Clean-7 (1x100)	100 LBS
Shipley	Neutra-Clean-7 (non-regulated) (2x25)	50 LBS
Fisher	Sodium Hydroxide IN (6x1LIT)	6 LIT
Shipley	Microposit Remover 1112A - NA1719 (5x10)	50 GAL
Shipley	Microposit Developer 303A NA1824 (3x8)	24 GAL
Olin-Hunt	Etchant Starter (corrosive) UN1760 (2x55)	110 GAL
	Ammonium Hydroxide	1 GAL
	Nutraclean 68	5 GAL
Fisher	Sodium Ethylenediamine (2x1)	2 LIT
Fisher	Potassium Hydroxide Pellets(5x500)	2-1/2 KG
Fisher	Potassium Hydroxide Pellets UN1813 (3KGx2)	6 KG
Fisher	Buffer solution Ph10 (3x500 ml)	1-1/2 LIT
Olin	Aqueous Alkaline solut. (1x1)	1 QT
Alpha Metals	2110 Aqueous Rosin Cleaner (5x1)	5 GAL
Fisher	Sodium Carbonate (10KGx2)	20 KG
RD Chemicals	Electro cleaner (1/2 x 100)	50 LBS
	Sodium Carbonate (1x500)	500 gm

Company Name	Description	Qty.
	Sodium Sulfite (1x500)	500 gm
	Sodium Hydroxide Pellets (1x500)	500 gm
	1/10 N sodium hydroxide solution (8 pelletsx1)	8 pell.
AREA C (IN PIT) ORGANICS/FLAMMABLES		
Shipley	Photoresist Defoamer Flamm. Liq. UN1993 (1x1)	1 GAL
Shipley	Microposit Photoresist 119S (2x4)	8 LIT
Shipley	Microposit Thinner 119	1 GAL
	2-Propanol A/R Grade	1 GAL
	Photoresist - Flammable liq. NO.S.UN1993 (1x1)	1 GAL
Fisher (08800-052)	Phenol Phthalein Flamm. liq. 1% UN1993 (1x500ml)	1/2 LIT
	Acetone	1 GAL
Olin	Photoresist Flamm. liq. NOS UN1993 (1x2)	2 GAL
Olin	Waycoat Superslix (non regulated) (1x1)	1 GAL
	Microstrip 2001 Corro. liq. UN1760 (4x1)	4 GAL
VWR	Isopropyl Alchohol (1x20LIT2x4+2-1/2)	10-1/2 GAL
Japan	Acetone (1/4x1)	1/4 GAL
	Cyclohexanone UN1993 Flamm. (1x1)	1 LIT
	Cyclohexanone UN1915 Flamm. (1x1)	1 LIT
Olin	Waycoat Positive (non regulated) (1x4)	4 GAL
Shipley	Photoresist (Pouches) NA1993 (4x1+4x1) flamm.	8 GAL
McKesson	Freon TF solvent (30x1)	30 LBS
Fisher	Methylene Chloride UN1593 (1x1)	1 GAL
Fisher	Denatured Alchohol (1x1)	1 GAL
	Triethanolamine (1x1)	1 pt
	Monoethanolamine (1x1)	1 pt
AREA D (CABINET OUTSIDE OF PIT)		
	Ammonium Persulphate Crystals	225 LBS
FMC Chemicals	Ammonium Persulfate Crystals	125 LBS
Olin	Sodium Persulphate Crystals	2 LBS
AREA E (CABINET OUTSIDE OF PIT)		
	Sodium Cyanide (1x500)	500 gm
	Copper Cyanide (1x500)	500 gm
	Mercuric Nitrate (1x30)	30 gm

Attachment

III

State of California—Health and Welfare Agency
Form Approved OMB No. 2040-0039 (Expires 5-31-91)
Please print or type (Form designed for use on elite (12-pitch typewriter))

ATTACHMENT 111

Department of Health Services
Toxic Substances Control Division
Sacramento California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: CAD 1 1 3 1 5 6 6 5 3 5 1 5
Manifest Document No:
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
OLIN METAL CHEM.
1120 TERRABELLA AVE
MOUNTAIN VIEW CA 94043
4. Generator's Phone (415) 961-6372

A. State Manifest Document Number: 8845743 1
B. State Generator's ID: H A H 6 3 6 0 2 3 8 7 5
C. State Transporter's ID: 1 1 5 6 5 1
D. Transporter's Phone: (707) 746-6677
E. State Transporter's ID:
F. Transporter's Phone:

5. Transporter 1 Company Name: UNIVERSAL ENVR. INC
6. US EPA ID Number: C A T 0 8 0 0 1 3 4 6 9
7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT
2621 OLD SKYLINE ROAD
KETTLEMAN CITY CA 93239
10. US EPA ID Number: C A T 0 9 9 0 6 4 6 1 1 7

G. State Facility's ID: 9 9 0 6 4 6 1 1 7
C A T 0 9 9 0 6 4 6 1 1 7
H. Facility's Phone: (800) 222-2964

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE CORROSIVE LIQUID N.O.S. CORROSIVE MATERIAL UN 1760	0 1 7	D F	9 9 1 5	G	State 132 EPA/Other D002
b. WASTE CORROSIVE LIQUID N.O.S. CORROSIVE MATERIAL UN 1760 RQ (DOT)	0 0 7	D F	0 0 3 8 5	G	State 792 EPA/Other D002
c. COPPER CONTAMINATED INERTS "CA REGULATED ONLY"	0 0 1	D F	0 0 0 8 5	P	State 181 EPA/Other —
d. SPENT NICKEL SOLUTION "CA REGULATED ONLY"	0 0 3	D F	0 0 1 6 5	G	State 726 EPA/Other —

J. Additional Descriptions for Materials Listed Above
a) ETHANOLAMINE 10-15%, GLYCOL ETHERS 25-30%, 2-BUTOXYETHANOL 20-30%, DIPROPYLENE GLYCOL METHYL ETHER 10-15%
b) THIOUREA 40-60%, STANNOUS CHLORIDE 5-15%, SODIUM HYPOPHOSPHITE 5-15%
c) INORGANIC COPPER 1-5%
d) NICKEL SULFAMATE 20-40%

K. Handling Codes for Wastes Listed Above
a. 01 b. 14 c. 03 d. 03

15. Special Handling Instructions and Additional Information
a) PROFILE SFO G65292 (WASTE STRIPPER) c) PROFILE SFOJ06550
b) PROFILE SFOG65295 (SPENT LT26) d) PROFILE SFOJ06549
1-6256 STIR, CONTAIN, NEUTRALIZE RMS2 EMERGENCY CONTACT: CAL CHEMTREC (800) 424-9300 / 703-527-3887 (C)

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name	Signature	Month	Day	Year
CURT M RICHARDS	Curt M Richards	0 1	2 3	8 9

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	[illegible]		

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space
(G) CORRECTED STATE FACILITY'S ID TO THE RIGHT ONE [illegible]

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

DHS 8022 A (1/88)
EPA 8700-22
(Rev. 9-88) Previous editions are obsolete.

Do Not Write Below This Line

YELLOW: GENERATOR RETAINS

IN CASE OF AN EMERGENCY OR SPILL CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

State of California—Health and Welfare Agency
Form Approved OMB No. 2060-0039 (Expires 6-30-91)
Please print or type. (Form designed for use on elite (12-pitch) typewriter)

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No. CAD [illegible] 5 2 5 [illegible] 4

Manifest Document No. [illegible]

2 Page 1 of [illegible] Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
OLIN MESA CORP
1125 TERRA BELLA AVENUE
MT VIEW CA 94043
4 Generator's Phone ( ) [illegible]

A State Manifest Document Number: 88457432

B State Generator's ID: [illegible]

5 Transporter 1 Company Name: American Chemical Refining
6 US EPA ID Number: CAD 0 1 3 0 3 8 7 7 6 5

C State Transporter's ID: [illegible]

D Transporter's Phone: (213) 445-0295

7 Transporter 2 Company Name:
8 US EPA ID Number:

E State Transporter's ID:

F Transporter's Phone:

9 Designated Facility Name and Site Address
American Chemical & Refining
12121 East Envoy St.
S. El Monte CA 91733
10 US EPA ID Number: CAD 0 1 3 0 3 8 7 7 6 5

G State Facility's ID: CAD 0 1 3 0 3 8 7 7 6 5

H Facility's Phone: [illegible]

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. 9A WASTE CYANIDE SOLUTION NOS POISON B UN 1935	0 0 7	TF	9 0 3 2 5	G	State 131 / EPA/Other F007
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
a) CYNIDE GOLD SOLUTION

K. Handling Codes for Wastes Listed Above
a. 15 b. c. d.

15. Special Handling Instructions and Additional Information
USE GLOVES & GOGGLES

16.
GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: CURT M RICHARDS
Signature: [signature]
Month Day Year: 10 19 12 17 89

GENERATOR

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: ED [illegible]
Signature: [signature]
Month Day Year: [illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year:

TRANSPORTER

19. Discrepancy Indication Space
5 (C) A

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name:
Signature:
Month Day Year:

FACILITY

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802 WITHIN CALIFORNIA CALL 1-800-852-7550

DHS 8022 A (1/88)
EPA 8700—22
(Rev. 9-88) Previous editions are obsolete.

Do Not Write Below This Line

YELLOW: GENERATOR RETAINS

State of California—Health and Welfare Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-91)
Please print or type (Form designed for use on elite (12-pitch typewriter))

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: CAD981595205 | Manifest Document No: 00441422 | Page 1 of 1 | Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address: OLIN MESA CORP 1120 TERRA BELLA AVENUE MT. VIEW, CALIF.
4. Generator's Phone (415) 961-6372

A. State Manifest Document Number: 88457433
B. State Generator's ID: HAHQ360238715

5. Transporter 1 Company Name: Solvent Services, Inc. | 6. US EPA ID Number: CAD059494310 | C. State Transporter's ID | D. Transporter's Phone 408/259-7770
7. Transporter 2 Company Name | 8. US EPA ID Number | E. State Transporter's ID | F. Transporter's Phone

9. Designated Facility Name and Site Address: Solvent Services, Inc. 1021 Commercial Rd. San Jose, CA 95112 | 10. US EPA ID Number: CAD059494310 | G. State Facility's ID: CAL000194110 | H. Facility's Phone (408) 295-2516

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. FLAMMABLE LIQUID WASTE, NOS, FLAMMABLE LIQUID, UN 1993	002	DF	0110	G	State 214 / EPA/Other 7303
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above: WASTE SOLVENT

K. Handling Codes for Wastes Listed Above: a. 99 | b. | c. | d.

15. Special Handling Instructions and Additional Information: PROFILE FL 1082

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: CLINT M RICHARDS | Signature | Month Day Year: 11 27 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Bob Fosha | Signature | Month Day Year: 11 27 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month Day Year

DHS 8022 A (1/88)
EPA 8700—22
(Rev. 9-88) Previous editions are obsolete.

Do Not Write Below This Line

YELLOW: GENERATOR RETAINS

GENERATOR

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State of California—Health and Welfare Agency
Form Approved OMB No. 2040-0039 (Expires 9-30-91)
Please print or type (Form designed for use on elite (12-pitch typewriter)

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

Generator's US EPA ID No. | Manifest Document No. | Page 1 of 1 | Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
OLIN MIRA CO
[illegible] STELLA AVENUE
[illegible] 94043
4. Generator's Phone (415) 961-[illegible]

A. State Manifest Document Number: 88457434
B. State Generator's ID: [illegible]
C. State Transporter's ID: [illegible]
D. Transporter's Phone: (818) 532-0268

5. Transporter 1 Company Name: AJ MURRAY TRANSPORTATION
6. US EPA ID Number: CAD[illegible]
7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
CFI INORGANICS
34000 NEWING WAY
UNION CITY CA 94587
10. US EPA ID Number: CAD[illegible]
G. State Facility's ID: CAD[illegible]
H. Facility's Phone: (415) 489-1478

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
RQ WASTE AMMONIUM HYDROXIDE SOLUTION CORROSIVE MATERIAL NA 2672	001	DF	00550	G	State 123 / EPA/Other D002
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
AMMONIUM HYDROXIDE 10-20%
AMMONIUM CHLORIDE 10-20%
AMMONIUM CARBONATE 1-3%

K. Handling Codes for Wastes Listed Above
a. 01 b.
c. d.

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING, BOOTS, GLOVES, GOGGLES, ETC.

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Printed/Typed Name: COURT N. RICHARDS — Signature: [signature] — Month Day Year: 10 12 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DAN KEHOE — Signature: [signature] — Month Day Year: 08 28 89

17a. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month Day Year:

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: — Signature: — Month Day Year:

DHS 8022 A (1/88)
EPA 8700-22
(Rev. 9-88) Previous editions are obsolete.

Do Not Write Below This Line

YELLOW: GENERATOR RETAINS

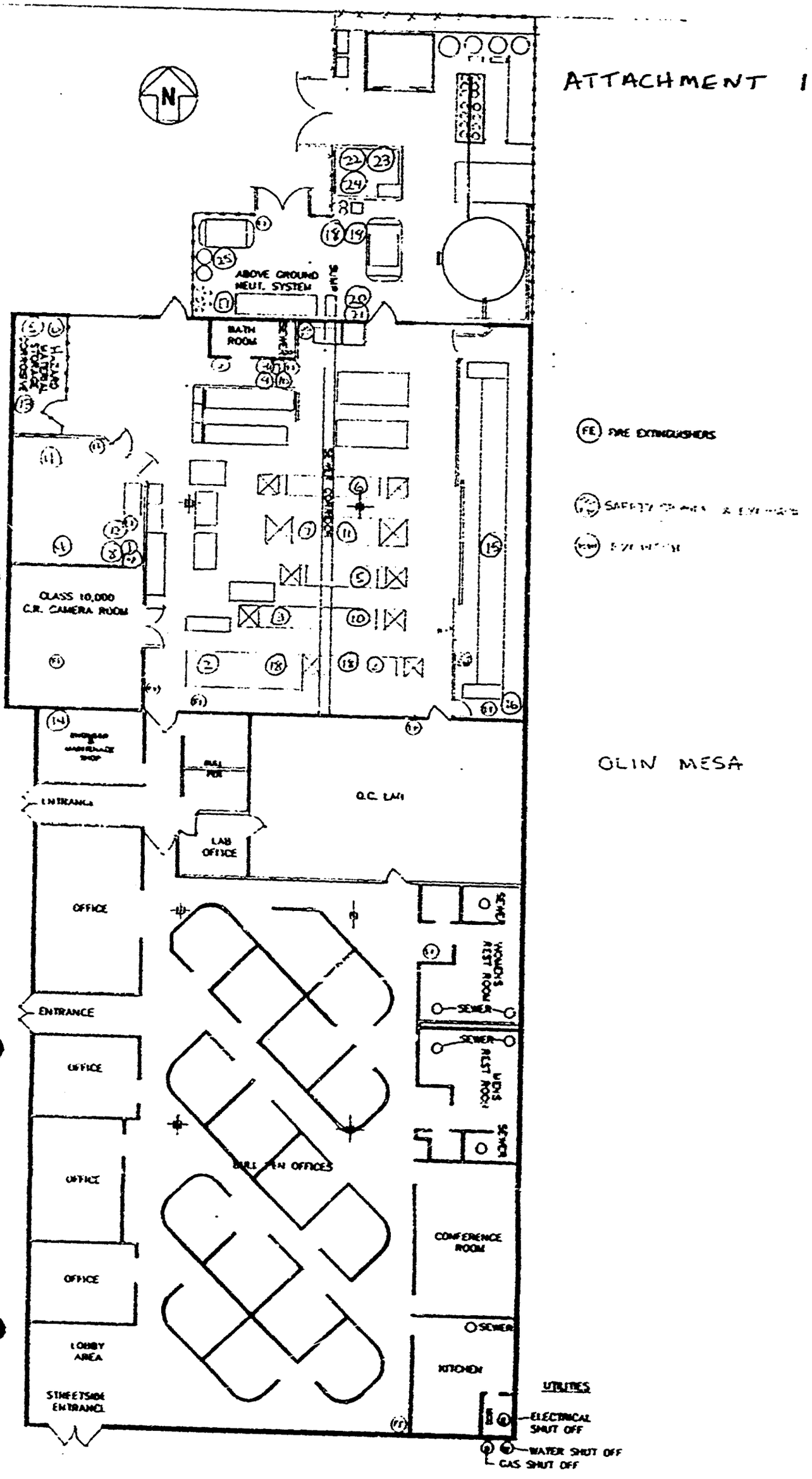
GENERATOR

IN CASE OF AN EMERGENCY OR SPILL CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

Attachment

II.

ATTACHMENT IV



CITY OF MOUNTAIN VIEW

HAZARDOUS MATERIALS DIVISION
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

HAZARDOUS MATERIALS INVENTORY STATEMENT
Amended ____
(see back of sheet for instructions)

Official Use Only
ID

Page (1) 1 of Pages 2

Date (2) 04/01/89

Business Name
(3) Olin Mesa Corp.

Facility Street Number / Street Name
1130 Terra Bella Avenue

DOT CLASS (4)	Chemical Name/Trade Name (5)	Map Location (6)	Quantity & Physical State: Gas (Cu Ft) (7)	Liquid (Gal) (8)	Solid (Lbs) (9)	Tank (10)	Waste (11)	Waste Annual Throughput (12)
FL	Acetone ✓	1		30				
Corr-L	Ammonium Hydroxide ✓	2		30				
Corr-L	Hydrochloric Acid ✓	3		30				
FL	2- Ethoxyethyl Acetate, O-Chlorotoluene/Microposit 119 s Photo Resist/Microposit 119 Thinner ✓	4		30				
Corr-L	Sodium Hydroxide/Microposit 303 A Developer ✓	5		150				
Corr-L	Glycol Ethers, 2- Butoxyethanol Ethanolamine, Dipropylene Glycol Methyl ether/ Microposit Remover 1112 A ✓	6		150				
Corr-L	Phosphoric Acid ✓	7		30				
FL	2- Propanol ✓	8		30				
Corr-L	Nitric Acid ✓	9		30				
Corr-L	Sulfuric Acid ✓	10		30				
Corr-L	Thiourea, Sodium Hypophosphite Stannous Chloride/ Tinposit LT-26 ✓	11		60	375			
FL	Waste Solvent ✓	12		60			X	165
Corr-L	Thiourea, Sodium Hypophosphite Stannous Chloride/ Tinposit LT-26 ✓	13			375			
FG	Acetylene	14		40				
Pois-L	Cyanide Gold Solution Potassium Gold Cyanide ✓	15		80				
Pois-S	Gold Salts Potassium Gold Cyanide ✓	16			10			

CITY OF MOUNTAIN VIEW

HAZARDOUS MATERIALS DIVISION
1000 Villa Street
Mountain View, CA 94041 (415) 966-6378

HAZARDOUS MATERIALS INVENTORY STATEMENT
Amended 1955
(see back of sheet for instructions)

Official Use Only

(D)

Page 2 of Pages 2

(1) 2

Date

(2) 04/01/89

Business Name

(3) Olin Mesa Corp.

Facility Street Number Street Name

1130 Terra Bella Ave.

DOT CLASS (4)	Chemical Name/Trade Name (5)	Map Location (6)	Quantity & Physical State: Gas (Cu Ft) (7)	Liquid (Gal) (8)	Solid (Lbs) (9)	Tank (10)	Waste (11)	Waste Annual Throughput (12)
OXY-S	Ammonium Persulfate ✓	17			375			
Corr-L	Ammonium Hydroxide, Ammonium Chloride, Ammonium Carbonate/High Speed AC- CU- Guard Replenisher ✓	18		220				
Corr-L	Ammonium Chloride, Ammonium Hydroxice/High Speed Ac- CU- Guard Starter ✓	19		110				
Corr-L	Sodium Hydroxide ✓	20		30				
Corr-L	Sulfuric Acid ✓	21		30				
Corr-L	Waste Corrosive Liquid ✓	22		275			x	1980
Corr-L	Waste Hydrochloric Acid Mixture ✓	23		275			x	660
Corr-L	Waste Ammonium Hydroxide Solution ✓	24		165			x	1980
NFG	Nitrogen ✓	25	80					

Attachment V.

ATTACHMENT V

OLIN MESA
CLOSURE PLAN
WIPE SAMPLE ANALYSIS

BACKGROUND SAMPLES

AREA BG #1 - OFFICE
COPPER
NICKEL
ARSENIC
CYANIDE

AREA BG #2 - QA/QC LAB
COPPER

AREA BG #3 - EMPLOYEE ENTRANCE
COPPER

CONTAMINATION SAMPLES

AREA #1 - CAGED STORAGE AREA
COPPER
NICKEL

AREA #2 - HAZARDOUS WASTE STORAGE
COPPER
NICKEL

AREA #3A, 3B, 3C - GOLD LINE CAGED AREA
COPPER
CYANIDE
NICKEL
ARSENIC

AREA #5 - ETCHING LINE #1
COPPER

AREA#6 - COATING ROOM
VOA

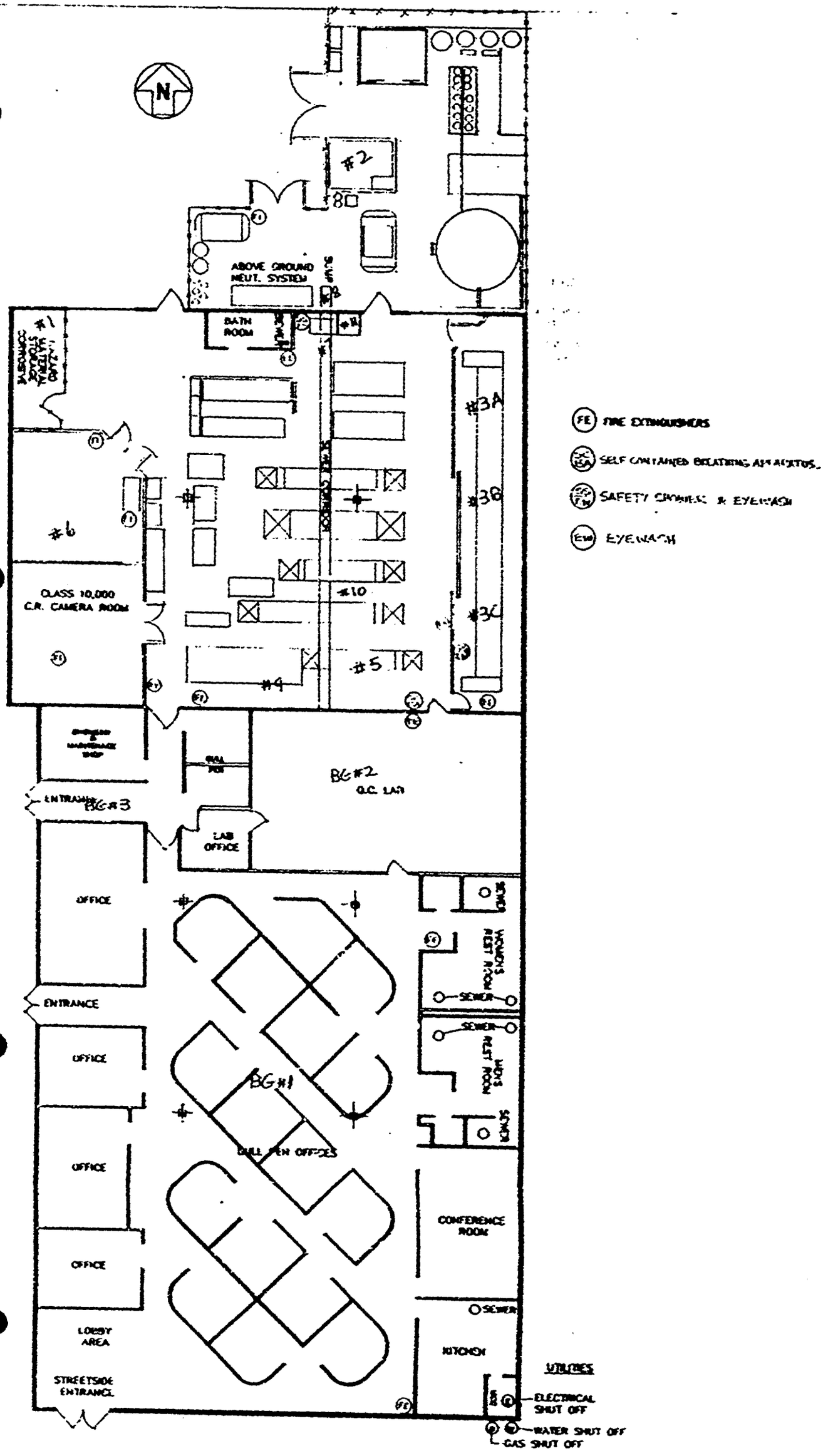
AREA #7 - TRENCH
COPPER

AREA #8 - NEUTRALIZATION SUMP
COPPER

AREA #9 - ETCHING LINE #2
COPPER

AREA #10 - BETWEEN DEVELOPER & PRECLEAN
PH

AREA #11 - ACID HOOD
PH


N
#2
ABOVE GROUND NEUT. SYSTEM
BATH ROOM
#1
#3A
#3B
#3C
#6
#10
#5
#4
CLASS 10,000 C.R. CAMERA ROOM
BG#2 Q.C. LAB
ENTRANCE BG#3
LAB OFFICE
OFFICE
ENTRANCE
OFFICE
OFFICE
OFFICE
OFFICE
LOBBY AREA
STREETSIDE ENTRANCE
BG#1
CONFERENCE ROOM
KITCHEN
SINK
SEWER
STORM DRAIN
STORM DRAIN
FE FIRE EXTINGUISHERS
SCBA SELF CONTAINED BREATHING APPARATUS
SS/EW SAFETY SHOWER & EYEWASH
EW EYEWASH
UTILITIES
ELECTRICAL SHUT OFF
WATER SHUT OFF
GAS SHUT OFF

Attachment

VI.

ACUREX Corporation

ATTACHMENT VI

Environmental Systems Division

Acurex - ESD

October 4, 1989
Acurex ID: 8909106
Client PO: 9424.011
Page 1 of 10

Attention: Peter Brewer

Subject: Analysis of 21 Wipe Samples, Received 9/29/89.

The samples were analyzed for purgeable organic compounds according to U.S. EPA Method 624 (Federal Register, Volume 49 No. 209, Oct. 26, 1984; Page 141). Results are presented in Table 1. The method can be summarized as follows:

> Helium is bubbled through an aliquot of sample contained in a specially designed purging chamber. The purgeable volatile organic compounds are efficiently transferred from the aqueous phase to the vapor phase. The vapor is swept through a sorbent column where the purgeables are trapped. After purging is completed, the trap is heated and back flushed with helium to desorb the purgeables onto a gas chromatographic column. The gas chromatograph is temperature programmed to separate the purgeables that are then detected with a mass spectrometer.

Qualitative identification of the priority pollutants is performed initially using the relative retention times and the relative abundance of three unique ions. The entire mass spectrum is checked before any final identifications are recorded. Quantitative analysis is performed by the internal standard method using a single characteristic ion and response factors obtained from a daily calibration standard. In the tables, an entry such as "<5" means that the compound was not found at a level above the laboratory's reporting limit. The reporting limit, which is based on EPA reporting levels, has been corrected for any sample dilution.

Prior to analysis, every sample is spiked with surrogate compounds as part of Acurex's Quality Control Program. These compounds simulate the behavior of compounds of interest and confirm that acceptable recoveries are being achieved on every sample. The results of surrogate recoveries are reported with the sample results.

485 Clyde Avenue, P.O. Box 7044, Mountain View, CA 94039 (415) 961-5700 Telex: 325961 FAX: (415) 964-5148

The samples were analyzed for requested metals using Inductively Coupled Argon Plasma spectroscopy or Atomic Absorption spectrophotometry following Methods for Chemical Analysis of Water and Wastes (EPA 1983). The EPA method employed is listed alongside of the parameter. Samples were digested using EPA Method 3010 and/or 3020 prior to analysis. The results are presented in Table 2.

The samples were analyzed for requested general chemical parameters following Test Methods for Evaluating Solid Wastes (SW-846, 3rd Ed.,1986). EPA methods employed are listed next to the parameters in Table 3.

If you should have any technical questions, please contact the undersigned at (415)964-0844.

Approved by: Daniel L. Middleton

Daniel L. Middleton
Client Services Manager

These results were obtained by following standard laboratory procedures; the liability of Acurex Corporation shall not exceed the amount paid for this report. In no event shall Acurex be liable for special or consequential damages.

Table 1. Volatile Organic Results

	Acurex-Olin Sample ID				
624 Compounds	BG #1 OFFICE ug/wipe	AREA #6 COATING ROOM ug/wipe	METHANOL BLANK ug/L	Method Blank ug/L	Storage Blank ug/L
Chloromethane	<5	<2	<500	<10	<10
Bromomethane	<5	<2	<500	<10	<10
Vinyl chloride	<5	<2	<500	<10	<10
Chloroethane	<5	<2	<500	<10	<10
Methylene chloride	25	3	3300	<5	<5
Trichlorofluoromethane	<2.5	<1	<250	<5	<5
1,1-Dichloroethene	<2.5	<1	<250	<5	<5
1,1-Dichloroethane	<2.5	<1	<250	<5	<5
trans-1,2-Dichloroethene	<2.5	<1	<250	<5	<5
Chloroform	<2.5	<1	<250	<5	<5
1,2-Dichloroethane	<2.5	<1	<250	<5	<5
1,1,1-Trichloroethane	<2.5	<1	<250	<5	<5
Carbon tetrachloride	<2.5	<1	<250	<5	<5
Bromodichloromethane	<2.5	<1	<250	<5	<5
1,2-Dichloropropane	<2.5	<1	<250	<5	<5
trans-1,3-Dichloropropene	<2.5	<1	<250	<5	<5
Trichloroethene	<2.5	<1	<250	<5	<5
Benzene	<2.5	<1	<250	<5	<5
Dibromochloromethane	<2.5	<1	<250	<5	<5
1,1,2-Trichloroethane	<2.5	<1	<250	<5	<5
cis-1,3-Dichloropropene	<2.5	<1	<250	<5	<5
2-Chloroethylvinylether	<5	<2	<500	<10	<10
Bromoform	<2.5	<1	<250	<5	<5
1,1,2,2-Tetrachloroethane	<2.5	<1	<250	<5	<5
Tetrachloroethene	<2.5	<1	<250	<5	<5
Toluene	<2.5	<1	<250	<5	<5
Chlorobenzene	<2.5	<1	<250	<5	<5
Ethylbenzene	<2.5	<1	<250	<5	<5
Dichlorobenzenes	<2.5	<1	<250	<5	<5
Date Analyzed	9/29/89	9/29/89	9/29/89	9/29/89	9/29/89
Surrogates	Percent Recoveries (%)				
1,2-Dichloroethane-d4	97	96	98	97	95
Toluene-d8	101	99	97	99	98
p-Bromofluorobenzene	96	91	96	103	101
Sample Area	1 sq ft	1 sq ft			

Table 1. Volatile Organic Results (Continued)

Acurex-Olin Sample ID

624 Compounds	Spike % Recov	Dup Spike % Recov
Chloromethane	NS	NS
Bromomethane	NS	NS
Vinyl chloride	NS	NS
Chloroethane	NS	NS
Methylene chloride	NS	NS
Trichlorofluoromethane	NS	NS
1,1-Dichloroethene	104	102
1,1-Dichloroethane	NS	NS
trans-1,2-Dichloroethene	NS	NS
Chloroform	NS	NS
1,2-Dichloroethane	NS	NS
1,1,1-Trichloroethane	NS	NS
Carbon tetrachloride	NS	NS
Bromodichloromethane	NS	NS
1,2-Dichloropropane	NS	NS
trans-1,3-Dichloropropene	NS	NS
Trichloroethene	96	92
Benzene	104	98
Dibromochloromethane	NS	NS
1,1,2-Trichloroethane	NS	NS
cis-1,3-Dichloropropene	NS	NS
2-Chloroethylvinylether	NS	NS
Bromoform	NS	NS
1,1,2,2-Tetrachloroethane	NS	NS
Tetrachloroethene	NS	NS
Toluene	100	96
Chlorobenzene	100	100
Ethylbenzene	NS	NS
Dichlorobenzenes	NS	NS
Date Analyzed	9/29/89	9/29/89
Surrogates	Percent Recoveries (%)	
1,2-Dichloroethane-d4	95	99
Toluene-d8	100	101
p-Bromofluorobenzene	92	93

NS - Not spiked

Table 2. Metals Results

Parameter	EPA Method	Acurex-Olin Sample ID: BG #1 OFFICE ug/wipe	BG #2 QA/QC ug/wipe	BG #3 EMPLOYEE ENTRANCE ug/wipe	AREA #1 ug/wipe	AREA #2 ug/wipe
Arsenic	206.2	<0.5	NA	NA	NA	NA
Copper	200.7	53.7	218	121	149	739
Nickel	200.7	5.8	NA	NA	8.7	80.2
			130.9 ave.			
Sample Area		1 sq ft	1 sq ft	1 sq ft	1 sq ft	1 sq ft

NA - Not analyzed

Table 2. Metals Results

Acurex-Olin Sample ID

Parameter	EPA Method	AREA #3A ug/wipe	AREA #3B ug/wipe	AREA #3C ug/wipe	AREA #5 ETCH #1 ug/wipe	AREA #7 TRENCH ug/wipe
Arsenic	206.2	<0.5	<0.5	<0.5	NA	NA
Copper	200.7	297	228	86.1	507	2960
Nickel	200.7	239	373	21.6	NA	NA
Sample Area		1 sq ft	1 sq ft	1 sq ft	1 sq ft	1 sq ft

NA - Not analyzed

Table 2. Metals Results

Acurex-Olin Sample ID

Parameter	EPA Method	AREA #8 SUMP ug/wipe	AREA #9 ETCH #2 ug/wipe	NITRIC BLANK ug*	Spike % Recov	Dup Spike % Recov
Arsenic	206.2	NA	NA	<0.5	NS	NS
Copper	200.7	1370	306	<1.0	NS	NS
Nickel	200.7	NA	NA	<2.0	NS	NS

Sample Area 1 sq ft 3" x 14"

Area #9 Etch #2

0.29 Sq. Ft.

$\frac{306\ ug}{0.29\ ft^2} = 1055\ \frac{ug}{ft^2}$

NA - Not analyzed

NS - Not spiked

* Approximate Volume of Solution: 30 ml

Table 2. Metals Results

Acurex-Olin Sample ID

Parameter	EPA Method	Method Blank ug/L	Method Detection Limit ug/wipe
Arsenic	206.2	<5.0	0.5
Copper	200.7	<10	1.0
Nickel	200.7	<20	2.0

Table 3. General Chemical Results

Acurex-Olin Sample ID

Parameter	EPA Method	BG #1 OFFICE ug/wipe	AREA #3A ug/wipe	AREA #2B ug/wipe	AREA #3C ug/wipe	NaOH BLANK ug*
Cyanides, total	9010 C	<2.0	<2.0	<2.0	<2.0	<2.0
Sample Area		1 sq ft	1 sq ft	1 sq ft	1 sq ft	

C - colorimetric

* Approximate Volume of Solution: 40 ml

Table 3. General Chemical Results

Acurex-Olin Sample ID

Parameter	EPA Method		Spike % Recov	Dup Spike RPD	Control Sample % Recov	Method Blank ug/L	Method Detection Limit ug/wipe
Cyanides, total	9010	C	NS	NS	109	<10	2.0

NS - Not spiked

C - colorimetric

K21514

ACUREX ANALYTICAL LABORATORY
CHAIN OF CUSTODY 9909-106

Page 1 of 3

Acurex Proposal Number: _____

Company Name	Project Manager:
Olin - Mesa	P. Brewer
Project Number	**Project Name:**
9424.011	Wipe Testing
Sampled by: (Printed and Written Signature)	
Peter J. Brewer Peter J. Brewer	

SAMPLE ID	DATE	TIME	MATRIX	SAMPLE LOCATION	NO. OF CONTAINERS	ANALYSIS: Cu	Ni	As	CYANIDE 335.2	VOA 624			REMARKS (preservation, special analytical or turnaround requirements, duplicate sample, etc.)
011648	1989 24 Sept	10:00	Paper + HNO_3	BG #1 office	1	X	X	X					ANALYZE
011649	"	10:00	Paper + NH_4OH	BG #1 office	1				X				ANALYZE
011651	"	"	Paper + Methanol	BG #1 office	1					X			Hold Analysis Until Approved by P Brewer
011650	"	"	Paper + HNO_3	BG #2 QA/QC	1	X							ANALYZE
011652	"	"	"	BG #3 Employee Entrance	1	X							
011653	"	10:20	"	Area #1	1	X	X						
011654	"	"	"	Area #2	1	X	X						
011655	"	"	"	Area #3A	1	X	X	X					
011657	"	"	Paper + NaOH	Area #3A	1				X				
011656	"	"	Paper + HNO_3	Area #3B	1	X	X	X					

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by (Signature)	**Date/Time**	**Received by: (Signature)**
Relinquished by (Signature)	**Date/Time**	**Received for Laboratory by: (Signature)**
Peter J. Brewer	24 Sept 1989 / 11:40	Marsha Dyer

REMARKS: Report Results as mass/area All areas of sample are 1 ft² unless noted specifically
* ONE WEEK TURNAROUND ON ALL Samples

Date/Time: 9/29/89 | 11:40 AM

ACUREX ANALYTICAL LABORATORY
405 Clyde Avenue, Bldg. 12
Mountain View, CA 94039
(415) 961-5700

ACUREX ANALYTICAL LABORATORY
CHAIN OF CUSTODY 8909-106

4/15/14

Page 2 of 3

Acurex Proposal Number: _____

Company Name	Project Manager
Olin Aegis	P. Brewer
Project Number	**Project Name**
9424.011	Wipe Testing

Sampled by (Printed and Written Signature)
Peter J. Brewer Peter J. Brewer

SAMPLE ID	DATE	TIME	MATRIX	SAMPLE LOCATION	NO. OF CONTAINERS	ANALYSIS: Cr	Ni	As	CYANIDE 335.2	VOA 624			REMARKS (preservation, special analytical or turnaround requirements, duplicate sample, etc.)
011658	1989 Apr 29	10:30	Paper + NaOH	Area #3B	1				X				Analyze
011659	"	"	Paper + HNO3	Area #3C	1	X	X	X					"
011662	"	"	Paper + NaOH	Area #3C	1				X				"
011660	"	10:40	Paper + HNO3	Area #5 Etch #1	1	X							"
011663	"	"	Paper + Methanol	Area #6 Coating Room	1					X			"
011661	"	"	Paper + HNO3	Area #7 Trench	3	X							Combine containers for one analysis
011664	"	"	"	Area #8 Sump	1	X							Analyze
011665	"	"	"	Area #9 Etch #2	1	X							" Area 3" x 14"

Relinquished by (Signature)	Date/Time	Received by (Signature)
Relinquished by (Signature)	Date/Time	Received by (Signature)
Relinquished by (Signature)	Date/Time	Received for Laboratory by (Signature)
Peter J. Brewer	29 Apr 1989 11:40	Marsha Depi

REMARKS: ONE WEEK Turnaround on all Samples
Hold billing for Engineering Report - Send to P. Brewer

Date/Time: 4/29/89 1140

ACUREX ANALYTICAL LABORATORY
405 Clyde Avenue, Bldg 12
Mountain View, CA 94039
(415) 961-5700

ACUREX ANALYTICAL LABORATORY
CHAIN OF CUSTODY

Acurex Proposal Number: _____ 8909-106

Company Name	Project Manager
Olin Metals	Brewer
Project Number	**Project Name**
9424.011	Wipe Testing
Sampled by: (Printed and Written Signature)	
Peter J. Brewer Peter J. Brewer	

SAMPLE ID	DATE	TIME	MATRIX	SAMPLE LOCATION	NO. OF CONTAINERS	ANALYSIS: 624 VOA	Cu, Ni, As	CN Total	REMARKS (preservation, special analytical or turnaround requirements, duplicate sample, etc.)
002531	29 Sept 1989	14:30	Water	Methanol Blank	1	X			Analyze
002532	"	"	HNO_3 0.1 N	Nitric Blank	1		X		"
002533	"	"	NaOH 0.1 N	NaOH Blank	1			X	"

Relinquished by (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	**Date/Time**	**Received by: (Signature)**
Relinquished by: (Signature)	**Date/Time**	**Received for Laboratory by: (Signature)**
Peter J. Brewer	29 Sept 1989 / 14:30	Robert G. Lukas

REMARKS: Send Report to P. Brewer
Hold billing for Engin. Report.
1 Week Turnaround

Date/Time: 9/29/89 / 14:30

ACUREX ANALYTICAL LABORATORY
405 Clyde Avenue, Bldg 12
Mountain View CA 94039

(415) 961-5700

Attachment VII.

ATTACHMENT VII

ACUREX Corporation

Environmental Systems Division

October 20, 1989

Mr. Amar Chunder
Olin Mesa Corporation
3500 Garnett Drive
Santa Clara, California 95054

Subject: Building Decontamination Verification, Wipe Test

Reference: Olin Mesa P.O. 10779, Acurex Project 9424

Dear Mr. Chunder:

This letter report outlines the results of the wipe tests conducted on October 16, 1989, at the 1130 Terrabella, Mountain View facility. Seven wipe tests and a field blank were analyzed as follows:

WIPE TEST RESULTS

Location	Area sq.ft	COPPER Initial ug/wipe	COPPER Final (a) ug/sq ft	NICKEL Initial ug/wipe	NICKEL Final ug/sq ft
Area 1	1	23	19	NA	NA
Area 3A	1	7.2	3.3	ND	ND
Area 3B	1	55	51	76	63
Area 3C	0.11	24	185	ND	ND
Area 5	0.11	22	169	NA	NA
Area 7	0.11	32	259	NA	NA
Area 9	0.11	86	759	NA	NA
Field Blank		3.9	---	13	---

Notes: a - Final values have been blank corrected. The blank result has been subtracted from the initial value before calculating the ug/sq.ft.
NA - Not analyzed.
ND - Not detected.

The laboratory report and Chain of Custody for this effort is enclosed. If you have any questions or need further assistance with your environmental concerns, please contact me at 415 961-5700, extension 3399.

Sincerely,
Acurex Corporation

Peter J. Brewer
Staff Engineer

PJB:wp
enc.

485 Clyde Avenue, P.O. Box 7044, Mountain View, CA 94039 (415) 961-5700 Telex: 325981 FAX: (415) 964-5148

ACUREX Corporation

Environmental Systems Division

Acurex - ESD
Building 2

October 18, 1989
Acurex ID: 8910097
8910096
Client PO: 9424.011

Attention: Peter Brewer

Subject: Analysis of 11 Water Samples, Received 10/16/89.

Aqueous samples were analyzed for requested metals using Inductively Coupled Argon Plasma spectroscopy or Atomic Absorption spectrophotometry following Methods for Chemical Analysis of Water and Wastes (EPA 1983). The EPA method employed is listed alongside of the parameter. Samples were digested using EPA Method 3010 and/or 3020 prior to analysis. The results are presented in Table 1.

If you should have any technical questions, please contact the undersigned at (415)964-0844.

Approved by:

Daniel L. Middleton
Client Services Manager

These results were obtained by following standard laboratory procedures; the liability of Acurex Corporation shall not exceed the amount paid for this report. In no event shall Acurex be liable for special or consequential damages.

485 Clyde Avenue, P.O. Box 7044, Mountain View, CA 94039 (415) 961-5700 Telex: 329561 FAX: (415) 964-5148

Table 1. Metals Results

Parameter	EPA Method	AREA 1 002523 ug/wipe	AREA 3A 002524 ug/wipe	AREA 3B 002525 ug/wipe	AREA 3C 002526 ug/wipe	AREA 5 ETCH 1 002527 ug/wipe
		Acurex-Olin Sample ID				
Copper	200.7	23.0	7.2	55.2	24.2	22.1
Nickel	200.7	NA	11.0	76.1	7.8	NA

NA - Not analyzed

Table 1. Metals Results

Parameter	EPA Method	AREA 9 ETCH 2 011668 ug/wipe	AREA 7 TRENCH 011667 ug/wipe	FIELD BLANK 011666 ug/wipe	BLANK A ug/wipe	MATRIX SPIKE B ug/wipe
		Acurex-Olin Sample ID				
Copper	200.7	86.3	32.1	3.9	4.1	27.9
Nickel	200.7	NA	NA	12.9	12.2	67.2

Table 1. Metals Results

Parameter	EPA Method	MATRIX SPIKE DUP C ug/wipe	Spike % Recov	Dup Spike RPD	Method Blank ug/L	Method Detection Limit ug
		Acurex-Olin Sample ID				
Copper	200.7	23.6	95	17	<10	1.0
Nickel	200.7	54.2	110	21	<20	2.0

NA - Not analyzed

ACUREX ANALYTICAL LABORATORY
CHAIN OF CUSTODY

Acurex Proposal Number .....

Page 1 of 1

Company Name	Project Manager:
Olin-Meta	Brewer
Project Number	**Project Name:**
9424.011	Wipe Testing
Sampled by: (Printed and Written Signature)	
P.L. Brewer P.L. Brewer	

SAMPLE ID	DATE	TIME	MATRIX	SAMPLE LOCATION	NO. OF CONTAINERS	ANALYSIS: Copper	ANALYSIS: Nickel	REMARKS (preservation, special analytical or turnaround requirements, duplicate sample, etc.)
002523	16 Oct 1989	12:00	.1N HNO_3	Area #1 Storage Log 1	1	X		1 ft² Report as Total mass/wipe
002524	"	"	"	Area #3A	1	X	X	1 ft²
002525	"	"	"	Area #3B	1	X	X	1 ft²
002526	"	"	"	Area #3C	1	X	X	10 cm²
002527	"	"	"	Area #5 Etch #1	1	X		10 cm²
011668	"	"	"	Area #9 Etch #2	1	X		10 cm²
011667	"	"	"	Area #7 Trench	1	X		10 cm²
011666	"	"	"	Field Blank	1	X	X	—

Relinquished by (Signature)	Date/Time	Received by: (Signature)
Relinquished by (Signature)	**Date/Time**	**Received by: (Signature)**
Relinquished by: (Signature)	**Date/Time**	**Received for Laboratory by (Signature)**
P.L. Brewer	16 Oct 1989 1200	Anne Hunt

REMARKS:
~ 24 hr Turnaround
Send Report to Brewer
Verbals ASAP x 3399

Date/Time: 10/16/89 1205

ACUREX ANALYTICAL LABORATORY
402 Clyde Avenue, Bldg 12
Mountain View, CA 94039
(415) 961-5700

Distribution: White -- Laboratory Copy; Yellow -- Returned to Client with Report; Pink -- Field Copy;

Form 5192 10/87

ACUREX ANALYTICAL LABORATORY
CHAIN OF CUSTODY

Acurex Proposal Number: .....

Page 1 of 1

Company Name	Project Manager
Acurex	DeRosier / Brewer
Project Number	**Project Name:**
	LLG QC

Sampled by (Printed and Written Signature): Peter J Brewer — Peter J Brewer

SAMPLE ID	DATE	TIME	MATRIX	SAMPLE LOCATION	NO. OF CONTAINERS	ANALYSIS: Copper	ANALYSIS: Nickel	REMARKS
A	16 Oct 1989	17.05	Water HNO3	BLANK	1	x	x	* Report as Total Mass
B	"	"	"	Mat. Spike	1	x	x	*
C	"	"	"	Mat. Spike Dup	1	x	x	* — Internal Quality Control
								No charge to Client

Relinquished by (Signature)	Date/Time	Received by: (Signature)
Relinquished by (Signature)	Date/Time	Received by: (Signature)
Relinquished by (Signature)	Date/Time: 16 Oct 1989 12:05	Received for Laboratory by: (Signature)

REMARKS: See D Rosier if there are any Questions!

Date/Time: 10/16/89 12:05

ACUREX ANALYTICAL LABORATORY
405 Clyde Avenue, Bldg. 12
Mountain View, CA 94039
(415) 961-5700

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Form 5192 11/87

Attachment

VIII.

ATTACHMENT VIII

ACUREX Corporation

Environmental Systems Division

October 16, 1989

Mr. Amar Chunder
Olin Mesa Corporation
3500 Garnett Drive,
Santa Clara, California 95054

Subject: Building Decontamination Verification, pH and Soil Results

Reference: Olin Mesa P.O. No.'s 10728, 10779, Acurex Project 9424

Dear Mr. Chunder:

This letter report outlines the results of the pH tests conducted on September 29, 1989 and the Soil tests conducted on October 10, 1989 at the 1130 Terrabella facility.

PH Results

Area #10 PH =7

Area #11 PH =7

The values reported represent the average of three pH tests. All six individual tests showed a pH of 7. The original matrix of the wipe testing is enclosed as Exhibit A.

Soil Sample Results

Site #1 (Well) 240 mg/kg Copper

Site #2 (Pad) 25 mg/kg Copper

The laboratory report for the soil sample analysis and the California Department of Health Services (DHS) Laboratory Certification for Hazardous Waste Testing and Water Testing is enclosed.

Please contact me at (415) 961-5700 extension 3399 if you have any questions.

Sincerely,
Acurex Corporation

Peter J. Brewer
Staff Engineer
enc.

485 Clyde Avenue, P.O. Box 7044, Mountain View, CA 94039 (415) 961-5700 Telex: 326661 FAX: (415) 964-5148

ACUREX Corporation

Environmental Systems Division

Acurex - Building 2

October 13, 1989
Acurex ID: 8910075
Client PO:
Page 1 of 3

Attention: Peter Brewer

Subject: Analysis of 2 Soil Samples for Olin Mesa, Received 10/10/89.

The samples were digested using EPA method 3050 prior to analysis. The digestate was analyzed for requested metals using Inductively Coupled Argon Plasma Spectroscopy or Atomic Absorption spectrophotometry following Test Methods for Evaluating Solid Waste (SW-846 3rd. Ed.,1986). The EPA method employed is listed alongside of the parameter. The results are presented in Table 1.

If you should have any technical questions, please contact the undersigned at (415)964-0844.

Approved by: Robert DeRosier

Robert DeRosier
Client Services Manager

These results were obtained by following standard laboratory procedures; the liability of Acurex Corporation shall not exceed the amount paid for this report. In no event shall Acurex be liable for special or consequential damages.

485 Clyde Avenue, P.O. Box 7044, Mountain View, CA 94039 (415) 961-5700 Telex: 328961 FAX: (415) 964-5148

EXPIRES:
June 30, 1989

STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES
LABORATORY SERVICES
SANITATION AND RADIATION LABORATORY

APPROVED WATER LABORATORY

Acurex Corporation, Mountain View
Analytical Chemistry Laboratory

is hereby approved as a water laboratory
for the performance of analytical examinations as follows:

General Chemical
Organic Chemical

Issued at Berkeley, May 19, 1980

By B. R. Tamplin
(Chief, Sanitation and Radiation Laboratory)

This approval is subject to revocation or suspension for good cause

Figure 2-1. Approved Water Laboratory Certification

STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES

HAZARDOUS WASTE TESTING LABORATORY CERTIFICATE

is hereby granted to

ACUREX CORPORATION

to conduct analysis of hazardous waste in the following test categories:

As specified in the Hazardous Waste Testing Laboratory Certification List

This Certificate is granted in accordance with provisions of Article 8.5, Chapter 6.5, Division 20 of the Health and Safety Code.

Certificate No. 125
Expiration Date June 5, 1990

Issued at Berkeley, on June 17, 1988
by
Chief, Hazardous Materials Laboratory Section

Figure 2-2. Hazardous Waste Testing Laboratory Certificate

ACUREX ANALYTICAL LABORATORY
CHAIN OF CUSTODY

Acurex Proposal Number: _____

Page 1 of 1

Company Name	Project Manager
Acurex	E. Buchan
Project Number	**Project Name**
7141	Elm Ave. soil Study
Sampled by (Printed and Written Signature)	
Ruth Ann Mak	

	SAMPLE ID	DATE	TIME	MATRIX	SAMPLE LOCATION	NO. OF CONTAINERS	ANALYSIS (Lead)	REMARKS (preservation, special analytical or turnaround requirements, duplicate sample, etc.)
01	003320	10/10	2PM	Soil	Comp #1 (Soil)	1	X	
02	003321	10/10	2PM	Soil	Comp #2 (Soil)	1	X	
								75% SURCHARGE

Relinquished by: (Signature)	Date/Time 10/10	Received by: (Signature)	**REMARKS:** 3 DAY TAT
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature) Marsha Dyer	Date/Time 10/10/89 5:30PM

ACUREX ANALYTICAL LABORATORY
405 Clyde Avenue, Bldg. 12
Mountain View, CA 94039
(415) 961-5700

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Form 6192 10/87

Table 1. Metals Results

Acurex - Brewer Sample ID

Parameter	EPA Method	Method Detection Limit mg/kg
Copper	6010	1.0

Exhibit A

OLIN MESA
CLOSURE PLAN
WIPE SAMPLE ANALYSIS

BACKGROUND SAMPLES

AREA BG #1 - OFFICE
COPPER
NICKEL
ARSENIC
CYANIDE

Any where (office)
09:35

Also VOA background - may analyze

AREA BG #2 - QA/QC LAB
COPPER

9:55

AREA BG #3 - EMPLOYEE ENTRANCE
COPPER

CONTAMINATION SAMPLES

AREA #1 - CAGED STORAGE AREA
COPPER
NICKEL

AREA #2 - HAZARDOUS WASTE STORAGE
COPPER
NICKEL

AREA #3A, 3B, 3C - GOLD LINE CAGED AREA
COPPER
CYANIDE
NICKEL
ARSENIC

Table 1. Metals Results

Acurex - Brewer Sample ID

Parameter	EPA Method	SITE #1 003320 mg/kg	SITE #2 003321 mg/kg	Spike % Recov	Dup Spike RPD	Method Blank mg/L
Copper	6010	340	24.6	97	6.1	<0.01

Olin Mesa Corp.
A Subsidiary of Olin Corporation

3500 Garrett Drive
Santa Clara, CA 95054
Telephone (408) 986-8400
Fax (408) 982-2299

Olin Mesa

Mr. Curt Danzinger
Mountain View Fire Department
City of Mountain View

October 23, 1989

Dear Curt:

Attached is the Olin Mesa Closure Plan for 1130 Terra Bella Avenue.

The final sample for nickel at #3B will be obtained today to complete the Closure Plan.

As I leave for Japan tomorrow, I will have the results sent to you when received. No problem is expected based on the internal sampling.

If I can be of assistance or answer any questions, please don't hesitate to contact me at (408)982-2234.

Sincerely,

Curt M. Richards

Curt M. Richards
Director of Operations
Olin Mesa Corp.

Addendum to

OLIN MESA CLOSURE PLAN

1130 TERRA BELLA AVENUE

MOUNTAIN VIEW, CA

II. FINAL SITE INSPECTION AND ASSESSMENT:

E. A WIPE SAMPLE ANALYSIS WAS PERFORMED ACCORDING TO THE WIPE SAMPLE PLAN (ATTACHMENT V). THE RESULTS OF THE INITIAL ANALYSIS (ATTACHMENT VI) AND FINAL ANALYSIS (ATTACHMENT VII) AND RETEST (ATTACHMENT IX) ARE THE FOLLOWING:

BACKGROUND SAMPLES

COPPER	53.7 218 121	AVE: 130.9
ARSENIC	<0.5	
NICKEL	5.8	
CYANIDES, TOTAL	<2.0	
VOA	SEE ATTACHMENT VI	

AREA SAMPLES

	INITIAL	FINAL
AREA #1		
COPPER	149	23
NICKEL	5.7	NO RETEST
AREA #2		
COPPER	739	CONCRETE REMOVED
NICKEL	50.2	CONCRETE REMOVED
AREA #3A		
COPPER	297	7.2
CYANIDE	<2.0	NO RETEST
NICKEL	239	ND
ARSENIC	<0.5	NO RETEST

AREA #3B		
COPPER	228	55
CYANIDE	<2.0	NO RETEST
NICKEL	373	7.6 RETEST 12.3
ARSENIC	<0.5	NO RETEST
AREA #3C		
COPPER	86.1	24
CYANIDE	<2.0	NO RETEST
NICKEL	21.6	ND
ARSENIC	<0.5	NO RETEST
AREA #5		
COPPER	507	22
AREA #6		
VOA	SEE ATTACHMENT VI	NO RETEST
AREA #7		
COPPER	2960	32
AREA #8		
COPPER	1370	CONCRETE REMOVED
AREA #9		
COPPER	306	86
AREA #10		
pH	7 ATTACHMENT VIII	NO RETEST
AREA #11		
pH	7 ATTACHMENT VIII	NO RETEST

III. REMEDIATION:

F. THE SUMP AREA WAS TESTED (ATTACHMENT V), THE SUMP CONCRETE WAS CHIPPED OUT AND DISPOSED. SAMPLES WERE TAKEN OF THE SOIL BENEATH THE SUMP AREA AND TESTED FOR COPPER CONTAMINATION LEVELS. SOIL SAMPLE ANALYSIS SHOWED 340 MG/KG COPPER (ATTACHMENT VIII) AND 2.1 MG/L (ATTACHMENT X). NO FURTHER ACTION IS REQUIRED BASED ON THE SOIL ANALYSIS.

I. FOR WIPE SAMPLES DETECT CONTAMINATION ABOVE ACTION LEVELS, AFTER DECONTAMINATION WIPE SAMPLES WERE OBTAINED TO VERIFY DECONTAMINATION WAS COMPLETE (ATTACHMENT VII & ATTACHMENT IX).

J. ALL CONCRETE AND SOIL WILL BE REMOVED BY TUESDAY NOVEMBER 5, 1989.

IV. CONCLUSIONS

A. THERE ARE NO ENVIRONMENTAL OR HEALTH RISK POSED BY THE FACILITY AFTER COMPLETION OF REMEDIATION. OLIN MESA DID NOT EXPERIENCE ANY REPORTABLE SPILLS IN THE HISTORY OF THE COMPANY. IN SEPTEMBER 1988, A PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT AND GROUNDWATER INVESTIGATION WAS COMPLETED. NO DETECTABLE CONCENTRATIONS OF SEMIVOLATILE ORGANIC COMPOUNDS WERE REPORTED. TRICHLOROETHYLENE (TCE) AND TRANS-1,2-DICHLOROETHYLENE (T-1,2-DCE) WERE DETECTED. OLIN MESA USES RESEARCH QUANTITIES OF TCE AND HAS NEVER USED DCE. BECAUSE TCE AND DCE WERE DETECTED IN THE UPGRADIENT WELL, IT APPEARS THESE COMPOUNDS ORIGINATED FROM AN OFFSITE SOURCE.

THE FINAL WIPE SAMPLE ANALYSIS SHOWED THAT ALL AREA SAMPLES WERE BELOW THE BACKGROUND SAMPLES FOR NICKEL AND COPPER EXCEPT AT AREA #3B WHERE THE FLOOR HAS BEEN RECLEANED AND AND A RETEST WAS CONDUCTED 10/23/89. THE RESULTS ARE SUBMITTED WITH THIS ADDENDUM.

Attachment IX

ACUREX Corporation

Environmental Systems Division

October 26, 1989

Mr. Amar Chunder
Olin Mesa Corporation
3500 Garnett Drive
Santa Clara, California 95054

Subject: Building Decontamination Verification, Wipe Test

Reference: Olin Mesa P.O. 10779, Acurex Project 9424

Dear Mr. Chunder:

This letter report outlines the results of the wipe tests conducted on October 23, 1989, at the 1130 Terrabella, Mountain View facility. Two wipe tests were analyzed as follows:

WIPE TEST RESULTS

Location	Area sq.ft	COPPER Initial ug/wipe	COPPER Final ug/sq ft	NICKEL Initial ug/wipe	NICKEL Final ug/sq ft
Area 3B	1	NA	NA	12.3	12.3
3B Pipe	0.18	20300	1.1E+05	NA	NA

Notes: NA - Not analyzed.

The laboratory report and Chain of Custody for this effort is enclosed. If you have any questions or need further assistance with your environmental concerns, please contact me at 415 961-5700, extension 3399.

Sincerely,
Acurex Corporation

Peter J. Brewer
Staff Engineer

PJB:wp
enc.

ACUREX Corporation

Environmental Systems Division

Acurex - Building 2

October 26, 1989
Acurex ID: 8910149
Client PO: 9424-013
Page 1 of 3

Attention: Peter Brewer

Subject: Analysis of 5 Wipe Samples, Received 10/23/89.

The wipe samples were analyzed for requested metals using Inductively Coupled Argon Plasma spectroscopy or Atomic Absorption spectrophotometry following Methods for Chemical Analysis of Water and Wastes (EPA 1983). The EPA method employed is listed alongside of the parameter. Samples were digested using EPA Method 3010 and/or 3020 prior to analysis. The results are presented in Table 1.

If you should have any technical questions, please contact the undersigned at (415)964-0844.

Approved by:

Daniel L. Middleton
Client Services Manager

These results were obtained by following standard laboratory procedures; the liability of Acurex Corporation shall not exceed the amount paid for this report. In no event shall Acurex be liable for special or consequential damages.

Table 1. Metals Results

Acurex - Brewer Sample ID

Parameter	EPA Method	3B ug/wipe	3B PIPE ug/wipe	BLANK ug/wipe	MATRIX SPIKE * ug/wipe	DUP MATRIX SPIKE * ug/wipe
Copper	200.7	NA	20300	<1.0	24.8	26.7
Nickel	200.7	12.3	NA	<2.0	50.7	56.1

* - Spiked at 25 ug Cu and 50 ug Ni

NA - Not analyzed

Table 1. Metals Results

Acurex - Brewer Sample ID

Parameter	EPA Method	Spike % Recov	Dup Spike RPD	Method Blank ug/L	Method Detection Limit ug/wipe
Copper	200.7	99	6.4	<10	1.0
Nickel	200.7	101	8.7	<20	2.0

ACUREX ANALYTICAL LABORATORY
CHAIN OF CUSTODY

Page 1 of 1

Acurex Proposal Number: _____

Company Name	Project Manager:
Olin Metco	Brewer
Project Number:	**Project Name:**
9424.01 3	Wire Testing
Sampled by (Printed and Written Signature)	
Peter J. Brewer — Peter J. Brewer	

	SAMPLE ID	DATE	TIME	MATRIX	SAMPLE LOCATION	NO OF CONTAINERS	ANALYSIS: Nickel	Copper						REMARKS (preservation, special analytical or turnaround requirements, duplicate sample, etc.)
1	000603	23 Oct 1989	16:15	Hand Wipe	3B	1	X							
2	000604	"	"	"	3B PIPE	1		X						
3	A	"	"		BLANK	1								LAB INTERNAL QC. NOT to be billed to client
4	B	"	"		MATRIX SPIKE	1								
5	C	"	"		MATRIX SPIKE DUPLICATE	1								

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	**Date/Time**	**Received by: (Signature)**
Relinquished by: (Signature)	**Date/Time**	**Received for Laboratory by: (Signature)**
Peter J. Brewer	23 Oct 1989 16:35	[signature]

REMARKS: 24 hr Turnaround
Send results & Billing to
Brewer Bldg. 2

Date/Time: 10/23/89 16:35

ACUREX ANALYTICAL LABORATORY
405 Clyde Avenue, Bldg 12
Mountain View, CA 94039
(415) 961-5700

Distribution: White — Laboratory Copy; Yellow — Returned to Client with Report; Pink — Field Copy

Form 5192 10/87

10/23/1989 15:37 ACUREX ESD MOUNTAIN VIEW CA. 415 964 5145 P.05

TOTAL P.06

Attachment

B.

ACUREX Corporation

Environmental Systems Division

Acurex - ESD
Building 2

November 2, 1989
Acurex ID: 8910175
Client PO: 9424.013

Attention: Peter Brewer

Subject: Analysis of 2 Soil Samples, Received 10/26/89.

The samples were prepared by extraction in a citrate buffer for 48 hours. The resulting extract was filtered and acid digested using EPA Method 3010 and/or 3020 prior to analysis. The extract was then analyzed for requested metals using Inductively Coupled Argon Plasma spectroscopy or Atomic Absorption spectrophotometry. The resulting values are the soluble threshold limit concentrations for the requested metals. The results are presented in Table 1.

If you should have any technical questions, please contact the undersigned at (415)964-0844.

Approved by: Daniel L. Middleton
Daniel L. Middleton
Client Services Manager

These results were obtained by following standard laboratory procedures; the liability of Acurex Corporation shall not exceed the amount paid for this report. In no event shall Acurex be liable for special or consequential damages.

Table 1. Metals Results

Acurex - Brewer Sample ID

Parameter	EPA Method	SITE 1 003320 mg/L	Spike % Recov	Dup Spike RPD	Method Blank mg/L	Method Detection Limit mg/L
Copper	200.7	2.1	83	8.7	<0.01	0.01

CITY OF MOUNTAIN VIEW

MUNICIPAL OPERATIONS CENTER
TELEPHONE: (415) 966-6329

231 NORTH WHISMAN ROAD
POST OFFICE BOX 7540
MOUNTAIN VIEW, CA 94039

October 26, 1987

Mr. C. M. Richards
Director of Operations
Mesa Technology
1130 Terra Bella Avenue
Mountain View, California

RE: SUSPENSION OF INDUSTRIAL WASTE DISCHARGE PERMIT DUE TO FIRE

Dear Mr. Richards,

On October 26, 1987, at 0200 hours, a fire occurred at Mesa Technology. A preliminary investigation has suggested that the fire was caused by a malfunctioning immersion heater used to heat a deionized rinse water. The fire ruptured a container holding acid (NCl), which in turn resulted in an acid spill reaching an outside storm water drain inlet. This spill was successfully contained by the Fire Department and cleaned up by the Maintenance Department.

On December 18, 1985, Mesa Technology was issued an Industrial Waste Discharge Permit in accordance with the City of Mountain View Municipal Code (MVMC), section 35.32.1 (Industrial Waste Ordinance). Due to the fire, this permit is herewith suspended for a period not to exceed forty-five (45) days in accordance with MVMC 35.32.3. Mesa Technology shall immediately cease and desist all discharges of industrial wastes into the City of Mountain View sanitary sewer collection system (MVMC 35.32.3b). This includes all discharges except domestic sewage (restrooms, drinking water, etc.).

Mesa Technology is entitled to, upon request, an informal hearing before the City Manager, or his delegate, to discuss this suspension. If so desired, Mesa Technology must submit in writing to the Maintenance Director a request for an informal hearing within ten (10) calender days from the date of this letter (MVMC 35.32.4b). An informal hearing will be scheduled within five (5) working days from receipt of the request. All parties involved have the right to be represented by counsel (MVMC 35.32.4c).

Department of Toxic Substances Control

Matthew Rodriquez
Secretary for
Environmental Protection

Barbara A. Lee, Director
700 Heinz Avenue
Berkeley, California 94710-2721

Edmund G. Brown Jr.
Governor

August 21, 2015

Daniel Gold
eki
1870 Ogden Drive
Burlingame, CA 94010

PR # 2-081315-04

Dear Mr. Gold:

On August 13, 2015 the Department of Toxic Substances Control received your facsimile dated August 13, 2015 requesting records under the Public Records Act. After a thorough review of our files, we have found that we have records pertaining to some of the sites/facilities referenced in your request but not all of them. Please see below.

We have records for:

- 1130 Terra Bella Avenue, Mountain View

We do not have records for:

- 1150, 1160, 1170 Terra Bella Avenue, Mountain View
- 1001, 1005, 1015, 1023, 1043, 1091 N. Shoreline Boulevard, Mountain View
- 1001, 1005, 1015, 1023, 1043, 1091 Stierlin Road, Mountain View
- 1062 Linda Vista Avenue, Mountain View

The records that are on EnviroStor are ready for public review and can be accessed at: http://www.envirostor.dtsc.ca.gov/public. EnviroStor is a database that provides information and documents on over 5,000 DTSC cleanup sites. A computer is available in the Central Files of each DTSC Regional Office for use by community members to view Envirostor.

Those records we do have are ready for your review. Please contact me at (510) 540-3800 to arrange for an appointment to review the records.

Printed on Recycled Paper

Sincerely,



André J. Alexander
Regional Central Files Coordinator Fax: 510-540-3801
Berkeleyfileroom@DTSC.CA.GOV

CALIFORNI

MEMO
REV. 11-75)

DATE

ROOM NUMBER

PHONE NUMBER

Olin Dir. Env & Eng. AA. contacted 12/9 re site location: confirmed

assured chemicals decompose rapidly.

Will check with D.J. Roth to confirm this. ✓ Dtls ✓

~~Dtls~~ PHStorm ✓ NO PROBLEM

12/11 Swis sent to secto- ✓

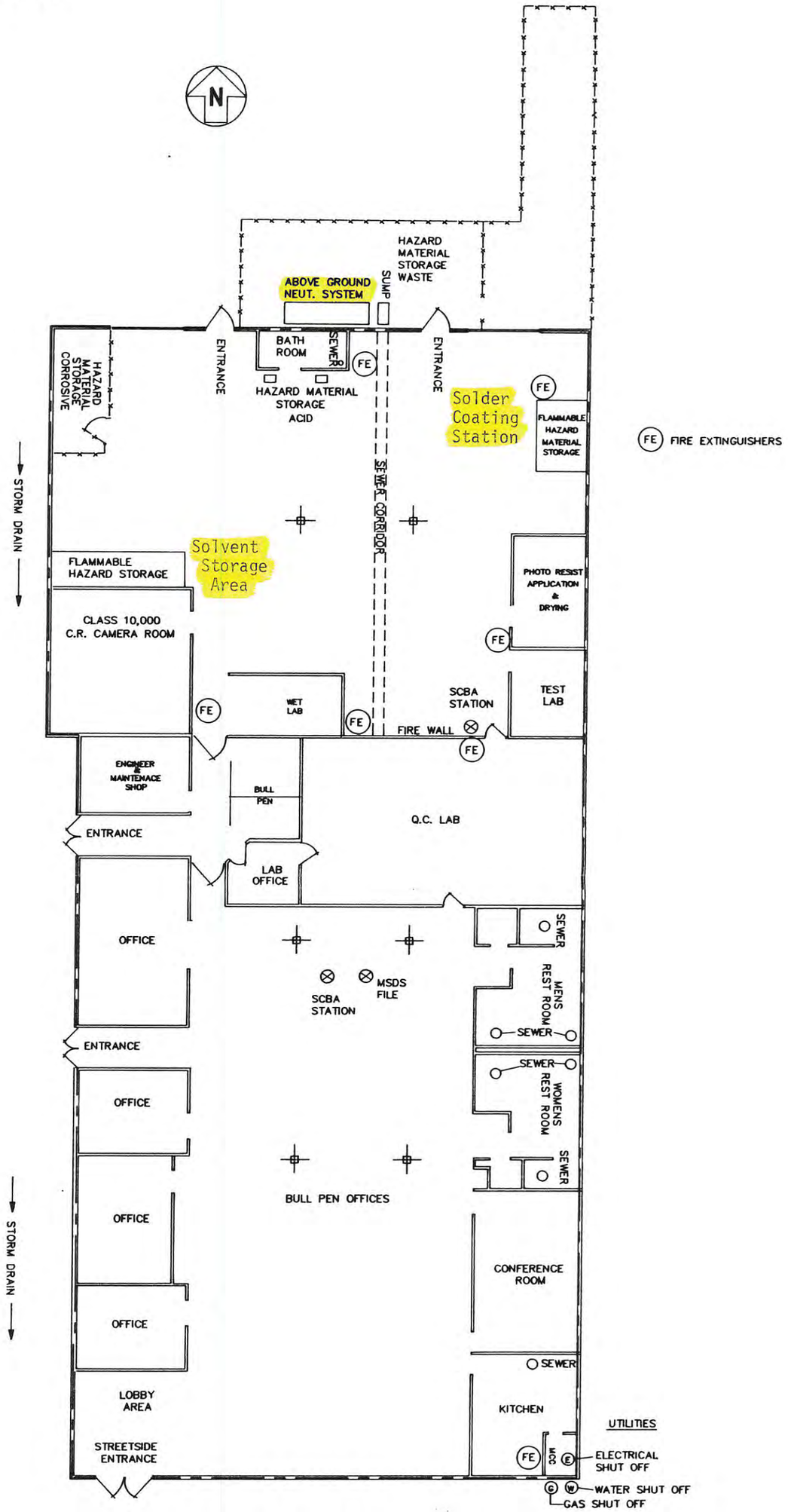
FOR

OLIN CORP

SEE

PACIFIC RAILWAY SIGNALS
COLUMBIA POWDER

THIS DOCUMENT IS THE PROPERTY OF OLIN CORPORATION AND THE INFORMATION CONTAINED THEREIN IS CONSIDERED CONFIDENTIAL. THIS DOCUMENT IS NOT TO BE USED, REPRODUCED OR DISCLOSED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN PERMISSION OF OLIN



TERRA BELLA AVENUE

REV.	DESCRIPTION	DRAWN	DATE	CHKD.	APPR.

REVISIONS TO THIS DRAWING MUST BE MADE ON THE ACAD SYSTEM

DRAWN SCOTT
DATE 3/24/87
CHECKED
DATE
APPROVED

Olin
CHEMICALS GROUP
LAKE CHARLES, LA.

PLANT MESA, CALIFORNIA

PROJECT NO.	CAR NO.	SCALE
P904		1/16"=1'-0"

MESA TECHNOLOGY FACILITY PLAN HM3-2

DRAWING NO. MESA-P904-3003-B

REV. 0

MESA-T 3/24/87

USEPA
ID # CAD009183831
CalSite # 43-28-0108

Region 2
DTSC No Action Site Form

Site Name: Olin Corporation, Morgan Hill Plant

Site Address: 425 Tennant Avenue
Morgan Hill, California 95037

Date of Recommendation(s): 9/28/1995

Recommendation(s): No Further Action based on available information at this time.

Comments(s):

Olin Corporation, Morgan Hill Plant site located at 425 Tenant Avenue in Morgan Hill, bought the site in 1956 and occupied it until 1987 during which they manufactured highway and railroad flares, clay pigeons, and pool chemical tablets. Standard Fusee leased the site from Olin in March 1988 and since Standard Fusee bought the facility has been manufacturing railroad and highway flares. CERCLA Screening Site Inspection report determined no further action at the site because the total waste quantity on-site is unknown but appears to be small; the likelihood of a release of contaminants to groundwater appears to be low: there is no contamination in the nearby municipal well attributable to the site; and a release of contaminants to the air appears to be unlikely. The Regional Water Quality Control Board (Board) inspected the site on November 21, 1979 and the Preliminary Assessment of the site in December 1981 and stated that there was no hazard to human health at the site. No information available from the Santa Clara county as of today (9/28/95). The Board does have any record of this site in their active list. Therefore, based on the available information it is determined that no further action is required

Reviewed By: Rash B. Ghosh

STATE OF CALIFORNIA—HEALTH AND WELFARE AG

FILE COPY

GEORGE DEUKMEJIAN, *Governor*

DEPARTMENT OF HEALTH SERVICES
TOXIC SUBSTANCES CONTROL DIVISION
2151 BERKELEY WAY, ANNEX 7
BERKELEY, CA 94704

April 3, 1989

EPA ID NO. CAD 981 395 205

Mr. Curt M. Richards
Director of Operations
Olin Mesa Corporation
1130 Terra Bella Avenue
Mountain View, CA 94043

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
"OFFICIAL FILE COPY"

DENIAL OF VARIANCE APPLICATION

Dear Mr. Richards:

On October 8, 1987, the Department of Health Services, Toxic Substances Control Division received your request for a variance from the hazardous waste facility permit requirements in Chapter 30, Division 4, California Code of Regulations (CCR).

The Department has reviewed your application and denies your request for a variance.

The application requests a variance to legally allow your facility to meter its highly concentrated hazardous waste into its wastewater effluent. This would, in effect, allow your facility to dilute these concentrated solutions and dispose of them into the sewer as non-hazardous waste.

Section 66300, Title 22, CCR states the following:

> "...all provisions of this chapter shall apply to the management of any liquid, semisolid, solid, or gaseous waste which conforms to the definition of hazardous waste in Section 25117 of the Health and Safety Code including but not limited to the following:
>
> A waste mixture formed by mixing any waste or substance with a hazardous waste."

The Department does not recognize dilution as an appropriate method of waste disposal.

In addition, your variance request mentions a wastewater pretreatment unit. The Department has no record of a permit or variance for this unit. If this unit treats hazardous waste, either a variance or a permit is required.

If you have any questions regarding this letter, please contact Karen Toth at (415) 540-3395.

Sincerely,

Michael R. James

Michael R. James, Chief
Facility Permitting Unit
Region 2
Toxic Substances Control Division

cc: Lee Esquibel, Santa Clara County Environmental Health
Caroline Cabias, TSCD-HWMS

MRJ:KMT:re-KMT2N

Olin Mesa Corp.
A Subsidiary of Olin Corporation

1130 Terra Bella Avenue
Mountain View, CA 94043
Telephone (415) 961-6372
Fax (415) 965-4595
Telex 172211 HQ SUVL

2 week response TXD



Olin Mesa

Mr. Dwight Hoenig
CA Department of Health Services
Toxic Substances Control Division
2151 Berkeley Way, Annex 7
Berkeley, CA 94704

March 15, 1989

Dear Mr. Hoenig:

On October 1, 1987 a variance request was submitted for three waste streams at our facility. The nature of the request was to allow the discharge of copper bearing waste streams which are greater than 25 mg/l, so as not to exceed the POTW discharge limits of 2 mg/l of copper.

As I have not heard a reply to the variance request, could you please give me the present status.

If you have any questions or need additional information please contact me at (415) 961-6372.

Sincerely,

Curt M. Richards

Curt M. Richards
Director of Operations
Olin Mesa Corp.

DEPARTMENT OF TOXIC
SUBSTANCES CONTROL
"OFFICIAL FILE COPY"

MESA
Technology

1130 Terra Bella Avenue
Mountain View, CA 94043

Phone: (415) 961-6372
Telex: 172211 HQ SUVL
FAX: (415) 965-4595

TOXIC SUBSTANCES CONTROL DIVISION
SEP 30 1988
DTSC DEPT-1578

TOXIC SUBSTANCES CONTROL DIVISION
10-003
Permits
OCT 03 1988
CA DEPT OF HEALTH SERVICES

Mr. Dwight Hoenig
CA Department of Health Services
Toxic Substances Control Division
2151 Berkeley Way, Annex 7
Berkeley, CA 94704

September 28, 1988

Respond Tim Dunn

Dear Mr. Hoenig:

On October 1, 1987 a variance request was submitted for three waste streams at our facility. The nature of the request was to allow the discharge of copper bearing waste streams which are greater than 25 mg/l, so as not to exceed the POTW discharge limits of 2 mg/l of copper.

As I have not heard a reply to the variance request, could you please give me the present status.

If you have any questions or need additional information please contact me at (415) 961-6372.

Sincerely,

Curt M. Richards

Curt M. Richards
Director of Operations
Olin Mesa Corp.

STATE OF CALIFORNIA—HEALTH AND WELFARE AGENCY GEORGE DEUKMEJIAN, *Governor*

DEPARTMENT OF HEALTH SERVICES
TOXIC SUBSTANCES CONTROL DIVISION
2151 BERKELEY WAY, ANNEX 7
BERKELEY, CA 94704

FILE COPY

November 3, 1987

Mesa Technology
1130 Terra Bella Avenue
Mountain View, CA 94043

RECEIPT OF REQUEST FOR VARIANCE

Dear Sir:

Your request for a hazardous waste facility permit variance dated September 18, 1987, has been received at this office. We regret that we are unable to process it at this time. You will be advised when we process it.

If you have any questions please contact Judith Henley, of this office, at (415)540-3548.

Sincerely,

Michael R. James

Michael R. James, Chief
Facility Permitting Unit
North Coast California Section
Toxic Substances Control Division

MRJ:dfm:malj:tmk

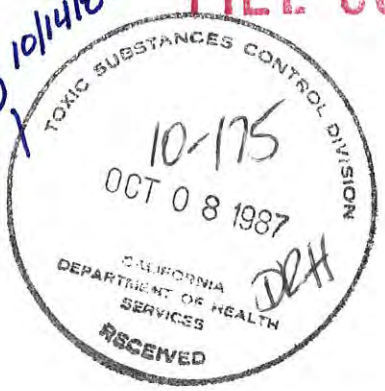
MESA
Technology

1130 Terra Bella Avenue
Mountain View, CA 94043

Phone: (415) 961-6372
Telex: 172211 HQ SUVL
FAX: (415) 965-4595

FILE COPY

LOG 10/14/87



October 1, 1987

Mr. Dwight Hoenig
CA Department of Health Services
Toxic Substances Control Division
2151 Berkeley Way, Annex 7
Berkeley, CA 94704

Gentlemen:

Enclosed is a variance request for three waste streams at our facility. This request is based on your authority, as defined by Section 66310(a)(2), for waste disposed of pursuant to the regulations of another governmental agency. The nature of the request is to allow the discharge of copper bearing waste streams which are greater than 25 mg/l, so as not to exceed the POTW discharge limits of 2 mg/l of copper.

If you have any questions or need additional information please contact me or Mr. David Booth of our Environmental Affairs Department at (318) 491-3157.

Very truly yours,

Curt M. Richards

Curt M. Richards
Director of Operations

CMR/eh

Enclosure

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
"OFFICIAL FILE COPY"

REQUEST FOR HAZARDOUS WASTE FACILITY PERMIT VARIANCE

California Department of Health Services

Hazardous Waste Management Branch

I would like to request a variance from the Hazardous Waste Facility Permit requirements of the California State Department of Health Services.



I am requesting a variance for the following type of facility:

( ) Container storage

( ) Tank storage

( ) located above ground

( ) located below ground

( ) A totally enclosed treatment facility.

( ) An elementary neutralization unit.

(X) A facility that discharges directly to a POTW.

( ) Other (specify) _____.

This facility is owned/operated by Mesa Technology, a wholly owned subsidiary of Olin Corporation.,

and is located at 1130 Terra Bella Avenue, Mountain View, CA 94043.

I am basing my request for a variance on the following checked (X) sections of Title 22, California Administrative Code:

( ) 66310(a)(1) The hazardous waste at my facility is insignificant as a potential hazard to humans, domestic livestock or wildlife because of its:

( ) small quantity;

( ) low concentration; and/or

( ) physical or chemical characteristics.

( ) 66310(a)(2) The hazardous waste at my facility is handled, processed or disposed of pursuant to regulations of another governmental agency:

My firm is regulated by the following agency: City of Mountain View, and the Palo Alto P.O.T.W.

A copy of the applicable permit is attached. A permit has been applied for and is pending. The allowable discharge limits are attached.

I am attaching information and drawings as outlined in Attachment A in support of this variance request. For any facilities involving underground tanks, I have attached information on a proposed groundwater monitoring program as outlined in Attachment B.

I understand that any variance from the Hazardous Waste Facility Permit requirements of the Department of Health Services, if granted, does not exempt my firm from any other applicable laws and regulations governing the management of hazardous wastes.

I certify that all information submitted with regards to this variance request is true, accurate and complete.

Curt M. Richards
(Applicant, Typed or Print)

Curt M. Richards
(Signature)

1130 Terra Bella Avenue
(Mailing Address)
Mountain View, CA 94043

Director of Operations
(Title)

(415) 961-6372
(Telephone Number)

10-1-87
(Date)

N.A.
Interim Status Document No.
If Applicable

PALO ALTO ALLOWABLE DISCHARGE LIMITS

Toxicant	Maximum Concentration Allowable
Arsenic	0.1 mg/liter
Barium	5.0 mg/liter
Beryllium	1.0 mg/liter
Boron	1.0 mg/liter
Cadmium	0.1 mg/liter
Chromium, Hexavalent	1.0 mg/liter
Chromium total	2.0 mg/liter
Cobalt	1.0 mg/liter
Copper	2.0 mg/liter
Cresols	2.0 mg/liter
Cyanides	1.0 mg/liter
Formaldehyde	5.0 mg/liter
Lead	0.5 mg/liter
Manganese	1.0 mg/liter
Mercury	0.05 mg/liter
Nickel	1.0 mg/liter
Phenols	1.0 mg/liter
Selenium	2.0 mg/liter
Silver	5.0 mg/liter
Zinc	5.0 mg/liter

DRB/eh
10/1/87

MESA TECHNOLOGY

GENERAL FACILITY DESCRIPTION

DEPARTMENT OF TOXIC
SUBSTANCES CONTROL
"OFFICIAL FILE COPY"

INDUSTRY

Mesa Technology is a subsidiary of Olin Corporation, Stamford, CT., incorporated in the State of California, and located at 1130 Terra Bella Avenue, Mountain View, California. Mesa Technology develops, manufactures and sells materials and equipment for semiconductor packaging and assembly in the electronics and semiconductor industry sector.

PRODUCTS

Mesa Technology manufactures microinterconnect tape which is comprised of copper foil either by itself or as a laminate with polymide film backing. This microinterconnect tape is used to interconnect semiconductor devices to packages in microelectronic assembly operations.

The manufacturing process to fabricate microinterconnect tape involves the cleaning of copper foil, coating the foil on both sides with a positive acting photoresist, exposing a pattern, chemically etching or plating the copper foil to define a pattern, stripping the photoresist from both sides of the foil, cleaning the patterned copper foil and plating the patterned foil with tin, nickel, gold, or solder. This process is performed in a continuous manner using reel-to-reel feeding of copper coils up to 70 mm in width. The process is currently operated on a one shift per day basis but will be capable of three shifts in the future.

GENERAL FACILITY LAYOUT

Attached is an area layout and a facility layout. On the facility layout are the locations of the safety equipment, fencing, utility cutoff's, hazardous material storage and the neutralization system. All facilities are secured within either locked gates or the building which is monitored by an electronic system.

WASTESTREAMS

During the manufacturing process there are various steps which utilize certain specialty chemicals and cleansers to clean, coat, etch, and plate the copper foil. Some of these chemicals build up concentrations of copper, and must be replenished or replaced. The solutions commonly discarded are described below.

It is requested that a variance be granted to allow the materials to be routed to the wastewater pretreatment unit, and to be discharge to the Palo Alto POTW, under their discharge limits of 2 mg/l for copper. Because such small volumes are generated, it is possible to meter this solution to the wastewater pretreatment system and maintain compliance with the copper effluent limits of 2 mg/l.

A. Ammonium Persulfate Wastestream

This material is used in the pre-clean line, to help prepare the copper foil for the coating and etching process. A 20 gallon reservoir supplies a spray wash which applies the solution to the copper foil. The solution is recycled to the reservoir and used until the copper concentration builds up to unacceptable limits. A small portion of the solution is replaced daily with fresh material. About three gallons per shift are generated on about seven working days out of the month. The copper concentration has been determined to range between 1,000 and 7,000 mg/l.

B. Hydrochloric Acid Waste Stream

This material is a 30% solution of hydrochloric acid. It is used in several parts of the overall process, e.g., the pre-cleaning line and the final cleaning line. It is used in a similar manner as the ammonium persulfate described above. About three gallons per shift are generated; about seven working days per month. A typical concentration would be expected to be in the same range as the persulfate waste, i.e., 1,000 - 7,000 mg/l. This material is also a characteristic corrosive hazardous waste which is easily neutralized in the pretreatment system.

C. Stripper Waste Stream

In the final cleaning line an organic stripper solution is used. This solution is a cellosolve based mixture, which is used in a three stage, three tank recirculating system. About six gallons per shift are generated from this system, about seven working days per month. The copper concentration has been determined to range from 700 to 14,000 mg/l.

Stierlin Road

N

Property Line

Terra Bella Ave.

Property Line

1130

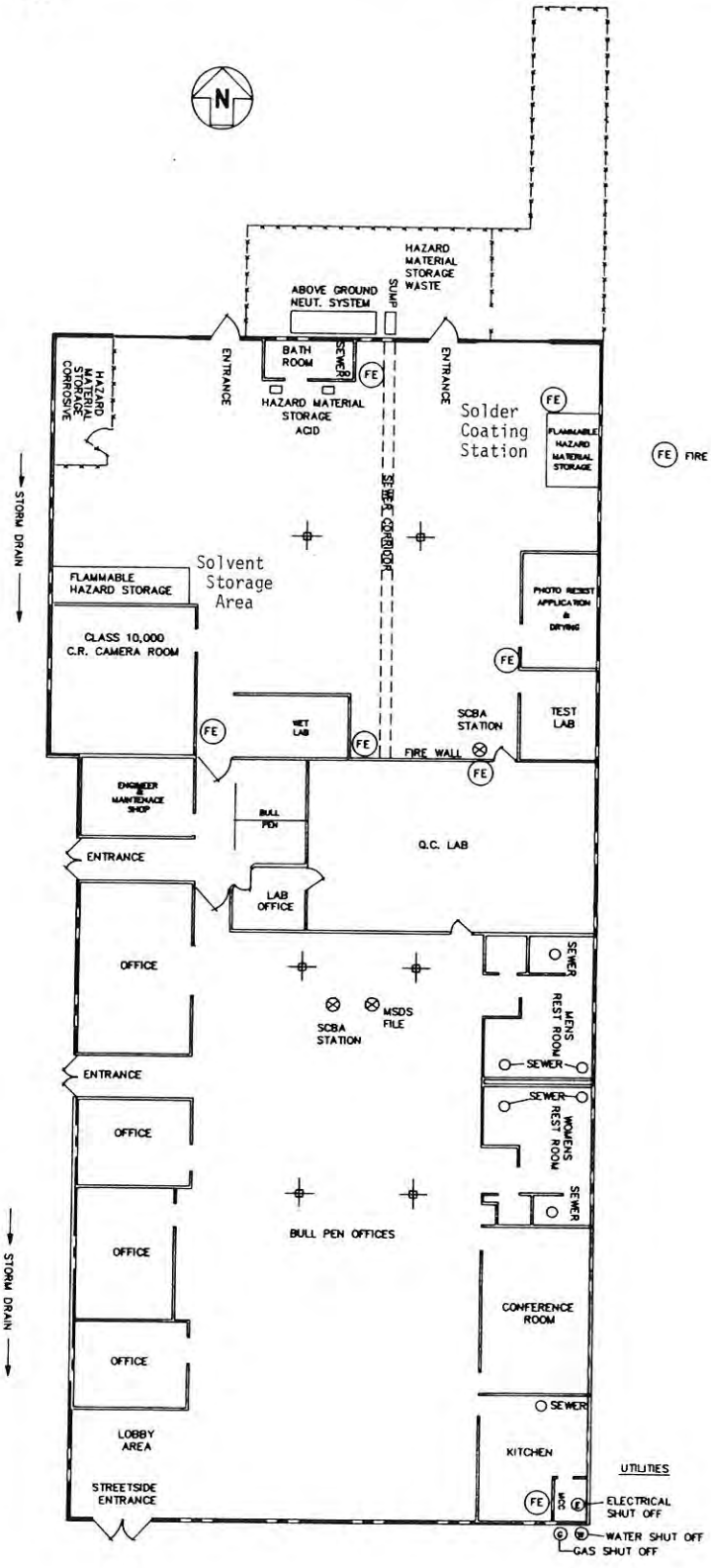
MESA
Technology
Building

DEPARTMENT OF TOXIC
SUBSTANCES CONTROL
"OFFICIAL FILE COPY"

Linda Vista Ave.

Plot
MESA Technology

Not to Scale



REVISIONS TO THIS DRAWING MUST BE MADE ON THE ACAD SYSTEM

REV.	DESCRIPTION	DRAWN DATE	CHKD.	APPR.

DRAWN DATE 3/24/87
CHECKED
APPROVED

Olin
CHEMICALS GROUP
LAKE CHARLES, LA.

PLANT: MESA, CALIFORNIA

PROJECT NO.	CAR NO.	SCALE
P904		1/16"=1'-0"

MESA TECHNOLOGY FACILITY PLAN HM3-2

DRAWING NO. MESA-P904-3003-B REV. 0

MESA-1 3/24/87

ATTACHMENT A

MESA TECHNOLOGY

WASTE TREATMENT FACILITIES

The waste treatment system is a prepackaged two chamber "Port-A-Just 15" acid neutralization unit built and installed by Ecology Protection Systems, San Jose, California. The system is designed to accommodate a peak flow of 15 gallons per minute and will maintain a pH range of 6.5 to 9.0. The system consists of the following:

PORT-A-JUST

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
"OFFICIAL FILE COPY"

Size: 5' X 5' X 5'
2 Chambers
2 Agitators
2 pH Controllers
2 Chemical Feed Pumps, Acid
2 Chemical Feed Pumps, Caustic
1 Control Panel with alarms for out of spec pH and low chemicals

LIFT STATION, 15 GPM

2 Pumps, Duplexed
1 Control Panel with starters and sump level control
1 Sump tank liner (Provides double containment)
Associated piping and valves

The Port-A-Just chemicals are supplied in 30 gallon drums.

Waste effluent from the process stations is conveyed to the sump in polypropylene drain lines mounted to the sidewall of a sealed and coated in-ground concrete trench. The trench extends from inside the building to a sump outside the building on the rear facilities support pad. The effluent is pumped from the sump into the neutralization unit. Following pH adjustment, the effluent is gravity fed into the building sewer drain line through a conventional vented P-trap arrangement and then flows to the Polo Alto Wastewater Treatment Plant.

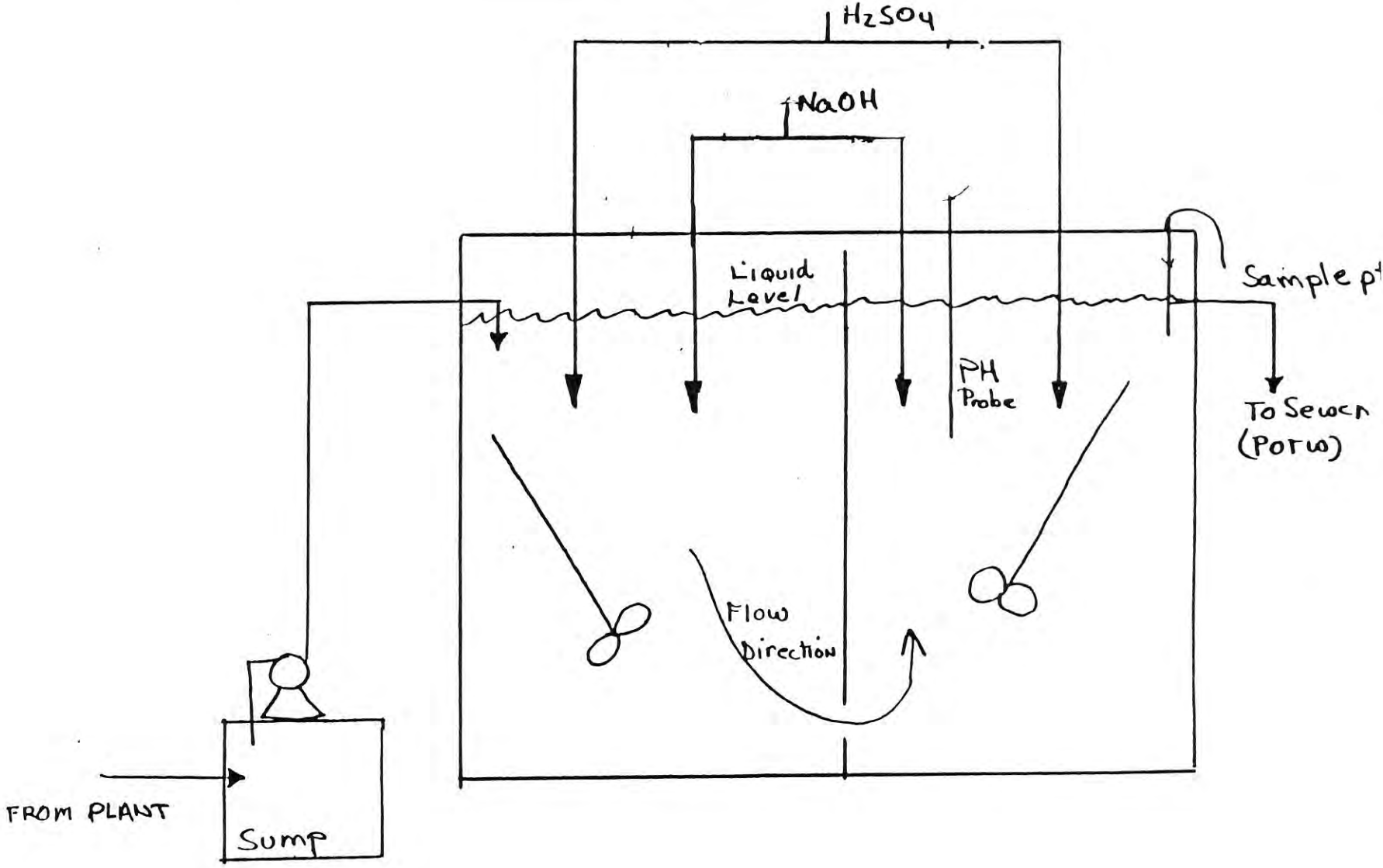
A schematic diagram of the waste treatment system is included herein.

DRB/gfp
8/05/87

ATTACHMENT F

MESA Technology

Neutralization Tank



MESA
Technology

1130 Terra Bella Avenue
Mountain View, CA 94043

Phone: (415) 961-6372
Telex: 172211 HQ SUVL
FAX: (415) 965-4595

FILE COPY

Log 9/29/87

August 7, 1987



Mr. Dwight Hoenig
CA Department of Health Services
Toxic Substances Control Division
2151 Berkeley Way, Annex 7
Berkeley, CA 94704

Gentlemen:

Enclosed is a variance request for three separate waste streams at our facility. These requests are based on your authority, as defined by Section 66310(a)(1) for very small quantities of hazardous wastes. In two cases a lead and a solvent waste stream take more than 90 days to fill a container for the recycler/disposal company. In the third case an elementary neutralization unit treats a small wastewater stream prior to discharge to a local POTW.

We specifically request that a variance be granted to store the lead and solvent waste streams for up to one year to facilitate the transportation of full containers, and that a variance for the elementary neutralization unit be granted.

If you have any questions or need additional information please contact Mr. Ray Riley our Facilities Manager at (415) 961-6372 or Mr. David Booth our Environmental Specialist at (318) 491-3157.

Very truly yours,

Scott Voss

Scott Voss
President

SV/cs

Enclosure

REQUEST FC HAZARDOUS WASTE FACILITY PERM VARIANCE

California Department of Health Services
Toxic Substances Control Division

I would like to request a variance from the Hazardous Waste Facility Permit requirements of the California State Department of Health Services.

I am requesting a variance for the following type of facility:

(X) Container storage

( ) Tank storage

( ) located above ground

( ) located below ground

DEPARTMENT OF TOXIC SUBSTANCES CONTROL "OFFICIAL FILE COPY"

( ) A totally enclosed treatment facility

(X) An elementary neutralization unit

(X) A facility that discharges directly to a POTW

( ) Other (specify) _____.

This facility is owned/operated by Mesa Technology a wholly owned subsidiary of Olin Corporation.

and is located at 1130 Terra Bella Avenue, Mountain View, CA 94043

I am basing my request for a variance on the following checked (X) Sections of Title 22, California Administrative Code:

(X) 66310(a)(1) The hazardous waste at my facility is insignificant as a potential hazard to humans, domestic livestock or wildlife because of its:

(X) small quantity;

( ) low concentration; and/or

( ) physical or chemical characteristics

( ) 66310(a)(2) The hazardous waste at my facility is handled, processed or disposed of pursuant to regulations of another governmental agency.

My firm is regulated by the following agency: City of Mountain View, and Palo Alto Water Quality Department

A copy of the applicable permit is attached. Permit is currently pending.

I am attaching information and drawings as outlined in Attachment A in support of this variance request. For any facilities involving underground tanks, I have attached information on a proposed groundwater monitoring program as outlined in Attachment B.

I understand that any variance from the Hazardous Waste Facility Permit requirements of the Department of Health Services, if granted, does not exempt my firm from any other applicable laws and regulations governing the management of hazardous wastes.

I certify that all information submitted with regards to this variance request is true, accurate and complete.

Scott Voss
Applicant (typed or printed)

Scott Voss
Signature

1130 Terra Bella Avenue
Mailing Address
Mountain View, CA 94043

President
Title

(415) 961-6372
Telephone Number

August 7, 1987
Date

N.A.
Interim Status Document No.
(if applicable)

MESA TECHNOLOGY

GENERAL FACILITY DESCRIPTION

INDUSTRY

Mesa Technology is a subsidiary of Olin Corporation, Stamford, CT., incorporated in the State of California, and located at 1130 Terra Bella Avenue, Mountain View, California. Mesa Technology develops, manufactures and sells materials and equipment for semiconductor packaging and assembly in the electronics and semiconductor industry sector.

PRODUCTS

Mesa Technology manufactures microinterconnect tape which is comprised of copper foil either by itself or as a laminate with polymide film backing. This microinterconnect tape is used to interconnect semiconductor devices to packages in microelectronic assembly operations.

The manufacturing process to fabricate microinterconnect tape involves the cleaning of copper foil, coating the foil on both sides with a positive acting photoresist, exposing a pattern, chemically etching or plating the copper foil to define a pattern, stripping the photoresist from both sides of the foil, cleaning the patterned copper foil and plating the patterned foil with tin, nickel, gold, or solder. This process is performed in a continuous manner using reel-to-reel feeding of copper coils up to 70 mm in width.

GENERAL FACILITY LAYOUT

Attached is an area layout and a facility layout. On the facility layout are the locations of the safety equipment, fencing, utility cutoff's, hazardous material storage and the neutralization system. All facilities are secured within either locked gates or the building which is monitored by an electronic system.

WASTESTREAMS

A. In the reel-to-reel system, water sprays wash residual process acids from the copper foil and generate a wastewater stream. This stream is maintained between 2.0 and 12.5 standard pH units. It is then treated in our elementary neutralization system to enable compliance with the POTW requirements of 5.5 to 10.0 standard units. While this stream is managed as a non hazardous stream, there exists some vulnerability in the event an upset or spill would cause water less than a pH of 2 to enter the neutralization system. We are unsure if

the Department of Health Services would consider this a hazardous waste treatment system, in that event. Therefore to settle this issue we are requesting a variance as an elementary neutralization system.

A description of the neutralization system is at Attachment A. The location of the system may be seen on the attached Facility Plan.

B. Solvents are used in a minor way for spot cleaning equipment and materials. They are not used as process chemicals. The waste solvents are collected into a steel drum and maintained in a flammable storage cabinet inside the production area. It's approximate location may be seen on the attached Facility Plan. They are generated in very small quantities over a long period of time. It takes between six months to 1 year to collect a full 30 to 55 gallon drum of solvents.

These solvents are designated by California waste code No. 214 as waste and comprised by acetone, isopropyl alcohol and 1,1,1 trichloroethane. They are sent to a recycle for recovery into a commercial product.

The need to have a transporter come in every 90 days rather than once in 9 months for a single container, increases the cost of this recycling considerably. This is due to the transportation cost premium for handling only one drum. A variance is requested to allow the accumulation of these materials for up to one year prior to shipment for recycle or disposal.

C. The third waste stream for which a variance is requested is for waste solder. About three to four pounds are generated monthly from solder coating equipment which treats certain copper foil products. This waste solder is hazardous by virtue of the lead content. It is accumulated at the point of generation in a sealed container. arrangements are being made for recycle of the material. If this is not possible, it will be disposed of as a hazardous waste in a secure landfill.

This material also is generated in very small quantities, and a variance is requested to accumulate the material until full containers of 5 to 15 gallon size may be shipped more economically. A variance is requested to accumulate these materials for up to one year prior to shipment for recycle or diposal.

DRB/gfp
8/07/87

Plot
MESA Technology



Not to Scale

ATTACHMENT A

MESA TECHNOLOGY

WASTE TREATMENT FACILITIES

The waste treatment system is a prepackaged two chamber "Port-A-Just 15" acid neutralization unit built and installed by Ecology Protection Systems, San Jose, California. The system is designed to accommodate a peak flow of 15 gallons per minute and will maintain a pH range of 6.5 to 9.0. The system consists of the following:

PORT-A-JUST

Size: 5' X 5' X 5'
2 Chambers
2 Agitators
2 pH Controllers
2 Chemical Feed Pumps, Acid
2 Chemical Feed Pumps, Caustic
1 Control Panel with alarms for out of spec pH and low chemicals

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
"OFFICIAL FILE COPY"

LIFT STATION, 15 GPM

2 Pumps, Duplexed
1 Control Panel with starters and sump level control
1 Sump tank liner (Provides double containment)
Associated piping and valves

The Port-A-Just chemicals are supplied in 30 gallon drums.

Waste effluent from the process stations is conveyed to the sump in polypropylene drain lines mounted to the sidewall of a sealed and coated in-ground concrete trench. The trench extends from inside the building to a sump outside the building on the rear facilities support pad. The effluent is pumped from the sump into the neutralization unit. Following pH adjustment, the effluent is gravity fed into the building sewer drain line through a conventional vented P-trap arrangement and then flows to the Polo Alto Wastewater Treatment Plant.

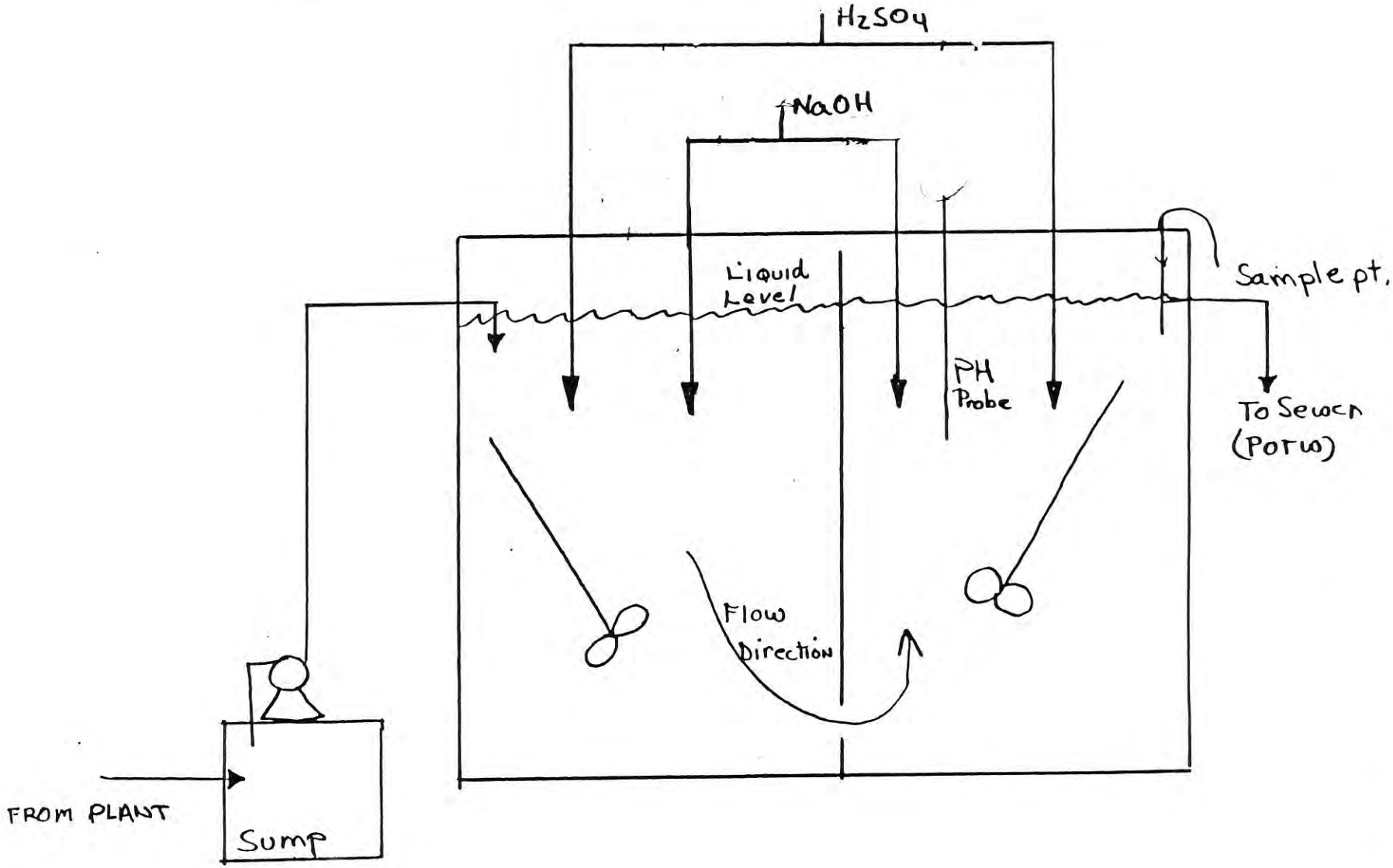
A schematic diagram of the waste treatment system is included herein.

DRB/gfp
8/05/87

ATTACHMENT F

MESA TECHNOLOGY

NEUTRALIZATION TANK



FPU-F

Olin Mesa Corp.
A Subsidiary of Olin Corporation

1130 Terra Bella Avenue
Mountain View, CA 94043
Telephone (415) 961-6372
Fax (415) 965-4595
Telex 172211 HQ SUVL

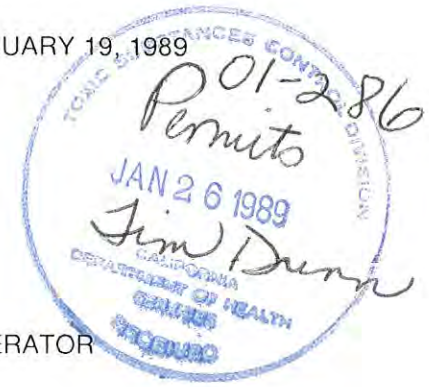


Olin Mesa

CERTIFIED MAIL

CALIFORNIA DEPARTMENT OF HEALTH SERVICES
HAZARDOUS WASTE MANAGEMENT
2151 BERKELEY WAY, ROOM 119
BERKELEY, CA 94704

JANUARY 19, 1989



EPA GENERATOR ID # CAD981395205

SUBJECT: 30 DAY EXTENSION ACCUMULATION TIME FOR THE GENERATOR

DEAR SIR:

A 30 DAY EXTENSION FOR THREE DRUMS OF WASTE CORROSIVE LIQUID N.O.S. (UN1760) HAZARDOUS WASTE STORED OVER 90 DAYS IS REQUESTED.

DUE TO THE INABILITY TO TREAT THE HAZARDOUS WASTE IN THE STATE OF CALIFORNIA, THE DRUMS ARE WAIT LISTED FOR A COMBINED SHIPMENT TO CHEMICAL WASTE MANAGEMENT IN CARLYSS, LA. THE DRUMS ARE EXPECTED TO SHIP BEFORE JANUARY 30, 1989.

YOUR APPROVAL IS REQUESTED.

IF ADDITIONAL INFORMATION IS REQUIRED PLEASE CONTACT ME AT (415) 961-6372.

VERY TRULY YOURS,

Curt M. Richards

CURT M. RICHARDS
DIRECTOR OF OPERATIONS
& TECHNOLOGY
OLIN MESA CORP.

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
"OFFICIAL FILE COPY"

File FPU – F

Date: 1/26/89
Time:
To: File
From: Karen Toth

RECORD OF COMMUNICATION

☐ Discussion ☐ Field Trip
☐ Meeting ☒ Phone Call
☐ Other

Subject: Olin Mesa

SUMMARY:

On 1/26 I spoke with Curt Richards regarding a 30 day extension to the generator storage limits.

I told him that there was not time or resources to process his request. We discussed the fact that he would be in violation until he got the drums of the facility. He said that the drums are scheduled to be shipped February 6, 1989.

Firm: Olin Mesa
Address: 1130 Terra Bella Ave
Mountain View CA
94043
Tel. No. (415) 961-6372

☐ Conclusions ☐ Actions taken ☐ Actions to be taken

Informational copies:

File FPU "B"

'n Mesa Corp.
A Subsidiary of Olin Corporation

1130 Terra Bella Avenue
Mountain View, CA 94043
Telephone (415) 961-6372
Fax (415) 965-4595
Telex 172211 HQ SUVL

Olin Mesa

CERTIFIED MAIL

02-165

Permits
Region 2
FEB 15 1989
Jim Dunn

CALIFORNIA DEPARTMENT OF HEALTH SERVICES FEBRUARY 13, 1989
HAZARDOUS WASTE MANAGEMENT
2151 BERKELEY WAY, ROOM 119
BERKELEY, CA 94704

EPA GENERATOR ID # CAD981395205

SUBJECT: **30 DAY EXTENSION ACCUMULATION TIME FOR THE GENERATOR**

DEAR SIR:

ON JANUARY 19, 1989, A 30 DAY EXTENSION FOR THREE DRUMS OF WASTE CORROSIVE LIQUID N.O.S. (UN1760) HAZARDOUS WASTE STORED OVER 90 DAYS WAS REQUESTED.

THE DRUMS REFERENCED IN THAT REQUEST WERE SHIPPED TO CHEMICAL WASTE MANAGEMENT IN CARLYSS, LA. ON FEBRUARY 7, 1989.

IF ADDITIONAL INFORMATION IS REQUIRED PLEASE CONTACT ME AT (415) 961-6372.

VERY TRULY YOURS,

Curt M Richards

CURT M. RICHARDS
DIRECTOR OF OPERATIONS
& TECHNOLOGY
OLIN MESA CORP.

12/11/81
From: Dave Reth
Re: OLIN and PACIFIC RAILWAY SIGNALS/COLUMBIA POWDER SUSPECT SITES

Conclusion: NO PROBLEM

8/20/81: Sites identified from Superfund notification

9/16/81: Pacific R.R. site could not be identified from drive-by

11/16/81: Questionnaires sent

12/9/81: I telephoned Mr. Knowles, the Director of Environmental and Energy Affairs for Olin Corp.

Columbia Powder first established the site in Los Gatos for the production of fireworks around the turn of the century. Pacific Railway Signals bought it around 1940, and manufactured signal flares. The site was purchased by Olin Corp. around 1949. The plant was damaged by a fire in 1955. As there was also pressure from the town of Los Gatos, who were trying to discourage Industrial development, Olin moved the operation to their Morgan Hill facility.

Wastes were disposed of, until 1975, by puting the solid wastes into a trench and burning them. The wastes are now hauled by a registered hauler to a class I site. The wastes formerly burned were:

strontium nitrate
potassium purchlorate
sawdust
starch
sulfer

According to a qualified physical chemist with whom I inquired, Dr. Julius Roth, Ph.D., these substances would almost entirely burn off. Any residue remaining would consist primarily of potassium chloride, a fertilizer, and sodium chloride, table salt. These would not be environmental or health hazards.

CONCLUSION: The sites should be classified as NO PROBLEM.

ABANDONED INDUSTRIAL WASTE DISPOSAL SITE SURVEY

Your cooperation in completing this form is appreciated. If you are completing this form for several plants, please use a separate form for each plant your company has operated and/or currently operates in California. If you do not have adequate space, please use another sheet of paper and identify responses by the question number.

Please return completed form by: 12/7/81

ITEM I.

Name of Company: PACIFIC RAILWAY SIGNALS, COLUMBIA POWDER

Location of Company: DAVES ST.
Number Street

LOS GATOS CA. SANTA CLARA
City County Zip

If Subsidiary, Name of Parent Organization: OLIN CORPORATION

Location: 120 LONG RIDGE RD
Number Street

STAMFORD, CONN. 06904
City County Zip

ITEM II.

A. Years of operation at this location: 19 49 to 19 56

B. Number of employees at this location: UNKNOWN

C. List names and locations of any other plants your company operates or has operated in California since 1945:

Name	Location	Years of Operation
OLIN CORPORATION	MORGAN HILL, CA	From: 19 56 to 19 81
OMCC	FRESNO, CA	From: 19 55 to 19 60
		From: 19 to 19
		From: 19 to 19

D. Was your current location previously occupied by a different company? ☐ Yes ☒ No ☐ Unknown
If yes, what was the company name or major type of product?

ITEM III.

List and explain your principal products, operations, and/or service, and percent of total production, or operation:

MANUFACTURE OF SIGNAL FLARE PRODUCTS

12/11/81
From: Dave Reth
Re: OLIN and PACIFIC RAILWAY SIGNALS/COLUMBIA POWDER SUSPECT SITES

Conclusion: NO PROBLEM

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LOS GATOS CA. SANTA CLARA
City County Zip

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STAMFORD, CONN. 06904
City County Zip

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OLIN CORPORATION	MORGAN HILL, CA	From: 19 56 to 19 81
OMCC	FRESNO, CA	From: 19 55 to 19 60
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		From: 19 to 19

D. Was your current location previously occupied by a different company? ☐ Yes ☒ No ☐ Unknown
If yes, what was the company name or major type of product?

ITEM III.

List and explain your principal products, operations, and/or service, and percent of total production, or operation:

MANUFACTURE OF SIGNAL FLARE PRODUCTS

DHS

POTENTIAL HAZARDOUS WASTE SITE
IDENTIFICATION AND PRELIMINARY ASSESSMENT

REGION	SITE NUMBER (to be assigned by Hq)

NOTE: This form is completed for each potential hazardous waste site to help set priorities for site inspection. The information submitted on this form is based on available records and may be updated on subsequent forms as a result of additional inquiries and on-site inspections.

GENERAL INSTRUCTIONS: Complete Sections I and III through X as completely as possible before Section II *(Preliminary Assessment)*.

I. SITE IDENTIFICATION

A. SITE NAME: PACIFIC RAILWAY SIGNALS, COLUMBIA POWDER

B. STREET *(or other identifier)*: DAVES ST.

C. CITY: LOS GATOS

D. STATE: CA.

E. ZIP CODE: 95030

F. COUNTY NAME: SANTA CLARA

G. OWNER/OPERATOR *(If known)*

1. NAME: OLIN CORPORATION
120 LONG RIDGE RD. STAMFORD CONN. 06904

2. TELEPHONE NUMBER: 615/ 336-2251

H. TYPE OF OWNERSHIP

☐ 1. FEDERAL ☐ 2. STATE ☐ 3. COUNTY ☐ 4. MUNICIPAL ☒ 5. PRIVATE ☐ 6. UNKNOWN

I. SITE DESCRIPTION

J. HOW IDENTIFIED *(i.e., citizen's complaints, OSHA citations, etc.)*: E.P.A. SUPERFUND Printout

K. DATE IDENTIFIED *(mo., day, & yr.)*: 8/26/81

L. PRINCIPAL STATE CONTACT

1. NAME: David Belk

2. TELEPHONE NUMBER: (408) 279-6663 (415) 540-3022

II. PRELIMINARY ASSESSMENT *(complete this section last)*

A. APPARENT SERIOUSNESS OF PROBLEM

☐ 1. HIGH ☐ 2. MEDIUM ☐ 3. LOW ☒ 4. NONE ☐ 5. UNKNOWN

B. RECOMMENDATION

☒ 1. NO ACTION NEEDED *(no hazard)*

☐ 2. IMMEDIATE SITE INSPECTION NEEDED
a. TENTATIVELY SCHEDULED FOR: _____
b. WILL BE PERFORMED BY: _____

☐ 3. SITE INSPECTION NEEDED
a. TENTATIVELY SCHEDULED FOR: _____
b. WILL BE PERFORMED BY: _____

☐ 4. SITE INSPECTION NEEDED *(low priority)*

C. PREPARER INFORMATION

1. NAME: ~~David Roth - Abandoned Site Project~~

2. TELEPHONE NUMBER: 279-5931

3. DATE *(mo., day, & yr.)*: 12/21/81

III. SITE INFORMATION

A. SITE STATUS

☐ 1. ACTIVE *(Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if intermittently.)*

☒ 2. INACTIVE *(Those sites which no longer receive wastes.)*

☐ 3. OTHER *(specify)*: _____ *(Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.)*

B. IS GENERATOR ON SITE?

☒ 1. NO ☐ 2. YES *(specify generator's four-digit SIC Code)*: _____

C. AREA OF SITE *(in acres)*

D. IF APPARENT SERIOUSNESS OF SITE IS HIGH, SPECIFY COORDINATES

1. LATITUDE *(deg.-min.-sec.)*

2. LONGITUDE *(deg.-min.-sec.)*

E. ARE THERE BUILDINGS ON THE SITE?

☐ 1. NO ☒ 2. YES *(specify)*: residences.

Continue On Reverse

Continued From Front

IV. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

'X'	A. TRANSPORTER	'X'	B. STORER	'X'	C. TREATER	'X'	D. DISPOSER
	1. RAIL		1. PILE		1. FILTRATION		1. LANDFILL
	2. SHIP		2. SURFACE IMPOUNDMENT		2. INCINERATION		2. LANDFARM
	3. BARGE		3. DRUMS		3. VOLUME REDUCTION		3. OPEN DUMP
	4. TRUCK		4. TANK, ABOVE GROUND		4. RECYCLING/RECOVERY		4. SURFACE IMPOUNDMENT
	5. PIPELINE		5. TANK, BELOW GROUND		5. CHEM./PHYS. TREATMENT		5. MIDNIGHT DUMPING
	6. OTHER (specify):		6. OTHER (specify):		6. BIOLOGICAL TREATMENT		6. INCINERATION
					7. WASTE OIL REPROCESSING		7. UNDERGROUND INJECTION
					8. SOLVENT RECOVERY		8. OTHER (specify):
					9. OTHER (specify):		

E. SPECIFY DETAILS OF SITE ACTIVITIES AS NEEDED

former site of signal flare manufacturer. Used to dig a trench and burn solid wastes including: strontium nitrate, potassium purchlorate, sawdust, starch, & sulfer. After burning, small quantities would remain of sodium chloride, and potassium chloride.

V. WASTE RELATED INFORMATION

A. WASTE TYPE

[ ] 1 UNKNOWN [ ] 2. LIQUID [X] 3. SOLID [ ] 4. SLUDGE [ ] 5. GAS

B. WASTE CHARACTERISTICS

[ ] 1. UNKNOWN [ ] 2. CORROSIVE [ ] 3. IGNITABLE [ ] 4. RADIOACTIVE [ ] 5 HIGHLY VOLATILE
[ ] 6. TOXIC [ ] 7. REACTIVE [X] 8. INERT [ ] 9. FLAMMABLE

[ ] 10. OTHER (specify): _____

C. WASTE CATEGORIES

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.

2. Estimate the amount (specify unit of measure) of waste by category; mark 'X' to indicate which wastes are present.

a. SLUDGE	b. OIL	c. SOLVENTS	d. CHEMICALS	e. SOLIDS	f. OTHER
AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT unknown
UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE
'X' (1) PAINT, PIGMENTS	'X' (1) OILY WASTES	'X' (1) HALOGENATED SOLVENTS	'X' (1) ACIDS	'X' (1) FLYASH	'X' (1) LABORATORY PHARMACEUT.
(2) METALS SLUDGES	(2) OTHER (specify):	(2) NON-HALOGNTD. SOLVENTS	(2) PICKLING LIQUORS	(2) ASBESTOS	(2) HOSPITAL
(3) POTW		(3) OTHER (specify):	(3) CAUSTICS	(3) MILLING/ MINE TAILINGS	(3) RADIOACTIVE
(4) ALUMINUM SLUDGE			(4) PESTICIDES	(4) FERROUS SMLTG. WASTES	(4) MUNICIPAL
(5) OTHER (specify):			(5) DYES/INKS	(5) NON-FERROUS SMLTG. WASTES	(5) OTHER (specify): sodium chloride
			(6) CYANIDE	(6) OTHER (specify):	potassium chloride
			(7) PHENOLS		
			(8) HALOGENS		
			(9) PCB		
			(10) METALS		
			(11) OTHER (specify)		

Continue On Page 3

Continued From Page 2

V. WASTE RELATED INFORMATION *(continued)*

3. LIST SUBSTANCES OF GREATEST CONCERN WHICH MAY BE ON THE SITE *(place in descending order of hazard).*

4. ADDITIONAL COMMENTS OR NARRATIVE DESCRIPTION OF SITUATION KNOWN OR REPORTED TO EXIST AT THE SITE.

VI. HAZARD DESCRIPTION

A. TYPE OF HAZARD	B. POTENTIAL HAZARD *(mark 'X')*	C. ALLEGED INCIDENT *(mark 'X')*	D. DATE OF INCIDENT *(mo., day, yr.)*	E. REMARKS
1. NO HAZARD	XX			
2. HUMAN HEALTH				
3. NON-WORKER INJURY/EXPOSURE				
4. WORKER INJURY				
5. CONTAMINATION OF WATER SUPPLY				
6. CONTAMINATION OF FOOD CHAIN				
7. CONTAMINATION OF GROUND WATER				
8. CONTAMINATION OF SURFACE WATER				
9. DAMAGE TO FLORA/FAUNA				
10. FISH KILL				
11. CONTAMINATION OF AIR				
12. NOTICEABLE ODORS				
13. CONTAMINATION OF SOIL				
14. PROPERTY DAMAGE				
15. FIRE OR EXPLOSION				
16. SPILLS/LEAKING CONTAINERS/ RUNOFF/STANDING LIQUIDS				
17. SEWER, STORM DRAIN PROBLEMS				
18. EROSION PROBLEMS				
19. INADEQUATE SECURITY				
20. INCOMPATIBLE WASTES				
21. MIDNIGHT DUMPING				
22. OTHER *(specify)*:				

Continue On Reverse

Continued From Front

VII. PERMIT INFORMATION

A. INDICATE ALL APPLICABLE PERMITS HELD BY THE SITE.

☐ 1. NPDES PERMIT ☐ 2. SPCC PLAN ☐ 3. STATE PERMIT *(specify)*: _____

☐ 4. AIR PERMITS ☐ 5. LOCAL PERMIT ☐ 6. RCRA TRANSPORTER

☐ 7. RCRA STORER ☐ 8. RCRA TREATER ☐ 9. RCRA DISPOSER

☐ 10. OTHER *(specify)*: _____

B. IN COMPLIANCE?

☐ 1. YES ☐ 2. NO ☐ 3. UNKNOWN

4. WITH RESPECT TO *(list regulation name & number)*: _____

VIII. PAST REGULATORY ACTIONS

☐ A. NONE ☐ B. YES *(summarize below)*

IX. INSPECTION ACTIVITY *(past or on-going)*

☐ A. NONE ☒ B. YES *(complete items 1,2,3, & 4 below)*

1. TYPE OF ACTIVITY	2. DATE OF PAST ACTION (mo., day, & yr.)	3. PERFORMED BY: (EPA/State)	4. DESCRIPTION
drive-by inspection	9/16/81	Abandoned Site Project	visual inspection

X. REMEDIAL ACTIVITY *(past or on-going)*

☐ A. NONE ☐ B. YES *(complete items 1, 2, 3, & 4 below)*

1. TYPE OF ACTIVITY	2. DATE OF PAST ACTION (mo., day, & yr.)	3. PERFORMED BY: (EPA/State)	4. DESCRIPTION

NOTE: Based on the information in Sections III through X, fill out the Preliminary Assessment *(Section II)* information on the first page of this form.

12/11/81
From: Dave Reth
Re: OLIN and PACIFIC RAILWAY SIGNALS/COLUMBIA POWDER SUSPECT SITES

Conclusion: NO PROBLEM

8/20/81: Sites identified from Superfund notification

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CONCLUSION: The sites should be classified as NO PROBLEM.

MEMO OF CALL

NAME PHIL LINK - PLT MGR DATE 10/2/81

FIRM OLIN CORP TIME 11:15

ADDRESS 425 TENNANT AVE PERSON TAKING/MAKING CALL RC

TELEPHONE 779-2196

SUBJECT PAST DISPOSAL INDICATED ON WADE'S QUEST.

MESSAGE Used to dig a trench, & periodically used to burn it - all wastes are solid

strontium nitrate
K perchlorate
sawdust
starch
sulfur

Discontinued in 1975 - now use registered waste hauler, everything goes to Kettleman

Dr. J. Roth 961-7477 M.S.A. (Management Science Associates)
re: Olin & Pacific RR signals

substances which would be left after burning:
potassium chloride → (salts)
sodium chloride

Conclusion = NO PROBLEM

SWIS-01 5/19/80

SOLID WASTE INFORMATION SYSTEM
FACILITY INVENTORY INFORMATION

#210

FACILITY FILE NUMBER COUNTY LEA NO	CITY CODE	CATEGORY	DATE PREPARED MM DD YY	FORM STATUS ADD	CHANGE	DELETE
43 - 28 - 0109	1640	21	08 20 81	⊗	○	○

FACILITY NAME:
PACIFIC RAILWAY SIGNALS, COLUMBIA POWDER

FACILITY LOCATION STREET, ROAD, OR LOCATION DESCRIPTION	CITY	STATE	ZIP
DAVES	LOS GATOS	CA	95030

LATITUDE: DEG MIN	LONGITUDE: DEG MIN

SECTION: TOWNSHIP: RANGE: BASE & MERIDIAN:

OPERATOR/CONTACT NAME: Olin Corporation — ~~J.C. Brown - mgt. contr. tech~~
TELEPHONE NUMBER: ~~415-327-2251~~

OPERATOR/CONTACT ADDRESS STREET	CITY	STATE	ZIP
120 Long Ridge Rd	Stamford	Ct	06904

LAND OWNER NAME:
TELEPHONE NUMBER: / -

LAND OWNER ADDRESS STREET	CITY	STATE	ZIP

REMARKS:
8/26 - from Superfund application - disposed of wastes from 49-54 by open burning; inorganics from signal flare mfg. No specific reference as to where on site - CHECK AERIALS

(203) 356-2000 main #
Mr. Knowles Dir. Environmental & Energy Affairs
(203) 356-2178

DHS 8026

SWIS-03 5/19/80

SOLID WASTE INFORMATION SYSTEM
OVERSIGHT ACTIONS REPORTING FORM

FACILITY FILE NUMBER COUNTY LEA NO.	PROGRAM CODE	COUNTY	DATE PREPARED
43 - 28 - 0109	H	SANTA CLARA	08/20/81

FACILITY NAME: PACIFIC RAILWAY SIGNALS, COLUMBIA POWDER

ACTION CODE	ACTION DATE MM DD YY	COMMENTS
2101	08 20 81	SUPERFUND NOTIFICATION
2111	08 26 81	NEED TO CHECK AERIAL PHOTOS
2102	09 16 81	SITE COULD NOT BE IDENTIFIED
2108	11 16 81	Questionnaire sent
2108	12 09 81	Phone conversation w/ Mr Knowles, Director
2108	12 10 81	Environmental and Energy Affairs
2108	12 11 81	~~Public~~ Phone conversation w/ Dr. J. Roth,
		PhD. physical chemist
2110	12 11 81	No problem based on research

REMARKS:

DHS 8015 (8/80)

MEMO OF CALL

NAME Mr. Knowles - Director Environmental & Energy Affairs DATE 12/9/81

FIRM Olin Corp. TIME 8:45

ADDRESS 120 Long Ridge Rd Stamford CT - 06904 PERSON TAKING/MAKING CALL D.R.

TELEPHONE (203) 356-2128

SUBJECT Pacific R.R. Signals / Olin Morgan Hill Plant.

MESSAGE Los Gatos site: originally a fireworks Mfg. est. 1900 -

1940 - bought by Pacific R.R. Signals - Mfg: signal flares and torpedos (flares) -

Purchased by Olin ≈ 1949

Plant damaged by a fire in 1955

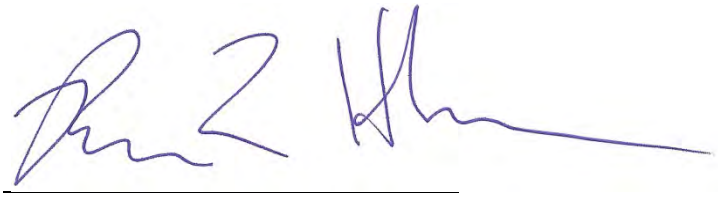
Due to the fire and pressure from Los Gatos in favor of residential housing, moved operations to the Morgan Hill site ≈ 1956

Location (approximate) 1/4 mile up Dawes Rd. from Winchester - up long paved driveway toward older 2 story house & residence owned by a Mr Ross as of 1979 Aprox. ≈ 10 acres -

Flare manufacturing - chemicals involved supposedly decompose rapidly upon contact with water, weather exposure -

CORNERSTONE EARTH GROUP

Type of Services	**Site Management Plan**
Location	**1001 North Shoreline Boulevard** **Mountain View, CA 94043**
Owner	**Calvano/CRP Mountain View Venture, LLC** **C/O Edwards Development & Advisors, LLC**
Owner Address	**11900 NE 1st Street, Suite 300** **Bellevue, WA 98005**
Project Number	**693-1-3**
Oversight Agency	**County of Santa Clara Department of Environmental Health**
Oversight Agency Address	**1555 Berger Drive, Suite 300** **San Jose, CA 95112**
Date	**September 15, 2015**



Prepared by **Ron L. Helm, C.E.G.**
Senior Principal Geologist

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APPENDIX A – HEALTH AND SAFETY PLAN

Type of Services	**Site Management Plan**
Location	**1001 North Shoreline Boulevard** **Mountain View, CA 94043**

SECTION 1: INTRODUCTION

On behalf of Calvano/CRP Mountain View Venture LLC, Cornerstone Earth Group (Cornerstone) prepared this Site Management Plan (SMP) for the planned commercial development at 1001 North Shoreline Boulevard in Mountain View, California (Site) as shown on Figures 1 and 2. This work was performed in reliance with the following documents:

- Cornerstone Earth Group, September 4, 2015. Project Health and Safety Plan (HSP), 1001 North Shoreline Boulevard, Mountain View, CA, Cornerstone.
- Cornerstone Earth Group, June 16, 2015. Preliminary Soil Vapor Quality Evaluation, 1001 North Shoreline Boulevard, Mountain View, California.
- Applied Water Resources, September 9, 2015. Monitoring Well Destruction Completion, 1130 Terra Bella, Mountain View, California.
- Applied Water Resources, April 25, 2014. Phase I Environmental Site Assessment, 1091 Shoreline Blvd., Mountain View, California.
- Applied Water Resources, January 10, 2014. Phase I Environmental Site Assessment, 1130 Terra Bella, Mountain View, California.
- Applied Water Resources, January 10, 2014. Phase I Environmental Site Assessment, 1160-1170 Terra Bella, Mountain View, California.
- Applied Water Resources, October 10, 2013. Phase I Environmental Site Assessment, 1023 Shoreline Blvd., Mountain View, California.
- Applied Water Resources, October 10, 2013. Phase I Environmental Site Assessment, 1043 Shoreline Blvd., Mountain View, California.
- Applied Water Resources, October 10, 2013. Phase I Environmental Site Assessment, 1062 Linda Vista, Mountain View, California.
- Applied Water Resources, March 16, 2011. Phase I Environmental Site Assessment, 1005 and 1015 North Shoreline, Blvd. and 1150 Terra Bella Ave., Mountain View, California.

The SMP meets the following corrective action standards:

- Be protective of human health and the environment;
- Describes contingency measures intended to control the known ground water contamination that has migrated onto the Site and reduce or eliminate further releases of hazardous constituents that may pose a threat to human health and the environment;
- Comply with applicable federal, state and local standards for management of wastes; and
- Implement applicable risk management controls.

The SMP provides technical and operational protocols for handling known and unknown impacted soil, soil vapor and ground water that may be encountered during redevelopment of the Site. It contains the following:

- A description of environmental conditions identified at the Site and surrounding areas;
- A general description of the planned development of the Site; and
- General soil, soil vapor and ground water management protocols to be implemented during construction of the planned development.

It is the General Contractor's responsibility to incorporate the provisions of this SMP into their design documents and HSP; applicable worker health and safety procedures are to be applied by the General Contractor and its subcontractors conducting the work.

SECTION 2: SITE DESCRIPTION

The location of the Site is shown on Figures 1 and 2. Tables 1 through 3 summarize general characteristics of the Site and adjoining properties.

2.1 LOCATION AND OWNERSHIP

Table 1 describes the physical location and current use of the property, based on information provided by Calvano/CRP Mountain View Venture LLC.

Table 1. Location and Current Use

Address	APN	Size (Acres)	Current Use	Square Footage	Approximate Construction Date
1091 North Shoreline	153-15-028	1.85	Two-story multiple tenant office building	36,054	1980
1043 North Shoreline	153-15-018	0.75	Two-story office building	13,000	1970
1062 Linda Vista	153-15-24	0.85	Warehouse	5,640	Early 1960s
1005 North Shoreline	153-15-015	2	Fiesta Del Mar Restaurant	---	Since at least 1974
1015 North Shoreline	153-15-016	0.76	Former residence that is used by Fiesta Del Mar for storage	---	Since at least 1956

Table 1 (Continued). Location and Current Use

1150 Terra Bella	153-15-022	0.86	Residence, garage, greenhouse, storage sheds, and open areas formerly used for storage	1,356	1947
1160-1170 Terra Bella	153-15-014	½	Single story office and light industrial building	7,840	1960
1130 Terra Bella	153-15-026	0.86	Single story office and warehouse building	12,300	1983
1023 North Shoreline	153-15-017	¾	Two-story office building	13,000	1974

2.2 SITE SETTING

Land use in the general Site vicinity appears to be primarily commercial and light industrial.

2.3 REDEVELOPMENT PLANS

The project will consist of redeveloping the Site for a new Class A office complex (Figure 2). The planned four-story office building will have a footprint of approximately 30,000 square feet. The building will be steel-frame construction. The remainder of the Site will be covered with at-grade asphalt concrete pavement and associated flatwork improvements.

SECTION 3: BACKGROUND

3.1 SITE BACKGROUND

The Site and surrounding area generally were used for agricultural purposes beginning in the late 1930s. Subsequent Site uses have included residences, warehouses, office space and light industrial activities. The surrounding area was used primarily as agricultural fields until it was developed with light industrial facilities in the 1960s and early 1970s.

According to the Applied Water Resources Phase I ESA for the property located at 1130 Terra Bella, the property was agricultural in 1939 and then used by Pennell Plastering and a residence from 1948 until the late 1970s. The existing building was constructed in 1983. Mesa Technologies operated a portion of the Site until 1989 as an instrument and electronics company and warehouse.

Based on a Preliminary Environmental Assessment and Ground Water Investigation completed by Aqua Terra Technologies in 1988 (ATT, 1988), Mesa Technology stored acids, caustic/alkaline cleaner, cyanide, photo resist stripper and flammable solvents at the facility. Flammable solvents also reportedly were stored in 55-gallon drums, and industrial waste water was treated on-Site in a neutralization sump, which reportedly was a concrete pit in the ground permitted by the City of Mountain View for neutralization of corrosives and acids. This pit reportedly was removed in 1989 under Mountain View Fire Department oversight. Sampling completed at the time of removal reportedly did not identify any releases of hazardous materials. The 2014 Phase I report completed by Applied Water Resources stated, "*Based on the analytical results of soil sampling, wipe sampling of the hazardous materials storage, site*

walk-through and the proper manifest documentation for the removal of the concrete and soil, the City of Mountain View Fire Department, Hazardous Materials Division granted closure for the facility on December 20, 1989."

Numerous investigations within the City of Mountain View have identified ground water impacts to the general Site area. Although none of the environmental reports have identified the Site as being an agency listed site and none identified a release of hazardous materials on-Site, based on the storage of hazardous materials, three monitoring wells were installed at the Site in August 1988 to evaluate its potential to have contributed to impairment of ground water quality (MW-1 and MW-2) and to establish background ground water chemical characteristics (MW-3) (Figure 3). Trichloroethene (TCE) reportedly was detected at 13, 240 and 33 micrograms per liter (µg/L) in wells MW-1, MW-2 and MW-3, respectively (ATT, 1988). It was concluded that, because TCE and trans 1,2-dichloroethene (tDCE) were detected in the up-gradient well MW-3, it appeared that these compounds were from an off-Site source. In addition, Applied Water Resources noted that, in granting closure for the hazardous materials storage area, "*the Mountain View Fire Department concluded that, because DCE was never used by the site occupant, only research quantities of TCE were used at the site, and both chemicals were detected in an up-gradient well, these chemicals were from an off-site source"*. The most recent sampling was performed at the Site on July 27, 2005. TCE reportedly was detected in all three wells at similar concentrations (33 to 46 µg/L) with the up-gradient monitoring well displaying the greatest concentrations of chemicals of concern (Figure 3). tDCE only was detected in the up-gradient well (MW-3 at 0.64 µg/L). No total petroleum hydrocarbons (TPH) as gasoline or diesel were detected in the water sampled.

Note that three ground water monitoring wells installed on-Site in 1988 were recently destroyed by Applied Water Resources (September 2015) under permit from the Santa Clara Valley Water District (Water District).

3.2 ADJACENT PROPERTIES

According to historical sources, properties surrounding the Site were primarily agricultural land prior to being developed with light industrial and commercial facilities in the 1960s and early 1970s. Ground water contamination from multiple sources has migrated beneath the Site. Those releases are summarized below.

3.2.1 Former Texaco Station, 975 north Shoreline Boulevard

A Texaco-branded service station previously was located at the southeastern corner of the intersection of North Shoreline Boulevard and Terra Bella Avenue. The former station included one 6,000-gallon gasoline underground storage tank (UST), four 4,000-gallon gasoline USTs, and one waste oil UST. In 1992, the six USTs, associated product piping, and dispensers were removed, and the property was redeveloped as a fast food restaurant. Following removal of the former USTs, approximately 1,520 cubic yards of petroleum hydrocarbon-impacted soil and approximately 1,000 gallons of petroleum hydrocarbon-impacted ground water were removed from the former UST area.

From January 13 to February 9, 1994, ENTRIX, Inc. (ENTRIX) operated a soil vapor extraction (SVE) system. The SVE system was shut down for rebound evaluation from February 9 to 24, 1994. On February 24, 1994, ENTRIX restarted and sampled the SVE system and concluded that no rebound had occurred. ENTRIX concluded that the SVE system appeared to

achieve remedial objectives. The SVE system was decommissioned following the rebound test to facilitate property redevelopment.

Twelve ground water monitoring wells were installed on or near the services station property, with four wells installed on the property (Figure 3). In the most recent ground water monitoring report (2010), contamination was detected in MW-22E, which is located on-Site south of the building at 1015 North Shoreline. TPH as gasoline was detected at 9,900 µg/L; benzene was detected at a concentration of 130 µg/L; toluene was detected at a concentration of 4.2 µg/L; ethyl benzene was detected at a concentration of 11 µg/L and Methyl tert-Butyl Ether (MtBE) was detected at a concentration of 1 µg/L.

On July 1, 2011, the County of Santa Clara County Department of Environmental Health (County Health) issued fuel leak site case closure. The ground water monitoring wells reportedly were destroyed under permit from the Water District (Stantec, June 2011).

3.2.2 The Shippen Property, 1175 Terra Bella

A 500 gallon gasoline UST was removed from 1175 Terra Bella in August 1998. During the removal of the UST, numerous holes were noted. Soil samples were collected in the excavation. The maximum contamination was reported at 1,900 milligrams per kilogram (mg/kg) for TPH as gasoline and 1.7 mg/kg for benzene; MtBE was not detected. In September 1998, one ground water sample was collected from the excavation, and TPH as gasoline was detected at 42,000 µg/L; benzene was detected at 1,400 µg/L; and MtBE was not detected. In November 2000, one boring was advanced to a depth of approximately 16 feet in an area off-site of 1175 Terra Bella. Three additional borings were advanced at 1175 Terra Bella. Soil and ground water samples were collected. TPH as gasoline, benzene and MtBe were not detected above laboratory detection limits in any of the sampling locations. The Water District granted fuel leak case closure on July 17, 2001.

3.2.3 Teledyne-Spectra Physics National Priority List (NPL) site

Volatile Organic Compound (VOC) impacted ground water and soil has been identified at the nearby Teledyne-SpectraPhysics National Priority List (NPL) site (Figure 1), from which a regional ground water plume (known as the North Bayshore Area plume) extends approximately 1 mile long and in some areas extends approximately 2,000 feet in width. The Project Site does not appear to be impacted by this ground water plume.

3.3 VAPOR INTRUSION

3.3.1 Texaco's Indoor Air Evaluation at 1015 North Shoreline

Stantec (December 2010), on behalf of Chevron and Texaco, evaluated the indoor air, crawl space air and outdoor ambient air of the vacant single-story residence at 1015 North Shoreline for vapor intrusion evaluation purposes due to the close proximity of the former Texaco Service Station located 975 North Shoreline Boulevard. MtBE and naphthalene were not detected above laboratory reporting limits in any of the air samples collected during this assessment. Benzene, toluene, ethylbenzene and xylene (BTEX) compounds were detected in all indoor air, crawl space air, and outdoor ambient air samples. Screening levels established for indoor air for residential use were exceeded for benzene and ethylbenzene; however, concentrations of these compounds in outdoor air were essentially the same as detected in indoor air. The presence of compounds in outdoor ambient air at concentrations exceeding

screening levels is reported in literature (Weisel, 2005; McHugh, 2004). BTEX compounds detected in outdoor ambient air are at or below median concentrations reported for urban environments across the United States (US EPA, 1999).

Crawl space air should be less affected by household chemical use or lifestyle choices such as smoking and is often used as a substitute for sub-slab sampling and indoor air sampling. For screening of possible human health risk, the US EPA applies an attenuation factor of 1.0 to detected chemicals in crawl space samples (US EPA, 2002). Thus, the indoor air quality is assumed to be equal to the crawl space air for evaluation purposes. The results of crawl space sampling indicated similar and same order of magnitude concentrations of the BTEX compounds as detected in both indoor air and outdoor ambient air.

Stantec concluded, "*Air sampling has not identified a complete vapor intrusion pathway at the vacant single-story residence, and no further vapor intrusion evaluation is warranted*".

3.3.2 Cornerstone's Soil Vapor Evaluation

Based on comments provided by the staff at the San Francisco Bay Regional Water Quality Control Board (Water Board) and the City of Mountain View (City), the Site is in close proximity to the Teledyne Spectra Physics and Texaco ground water plumes (Figure 1). To evaluate the potential for contaminated soil vapor to have migrated from these areas to the Site, Cornerstone (June 2015) performed a Preliminary Soil Vapor Quality Evaluation. Results from one sampling event (seven soil vapor samples) were compared to the residential and commercial regional screening levels (RSLs, US EPA, 2015) and the environmental screening levels (ESLs, Water Board, 2013) for soil gas. The detected soil vapor concentrations of PCE were compared to the California-modified indoor air screening levels of 0.4 micrograms per cubic meter ($\mu g/m^3$) for residential exposure and 2 $\mu g/m^3$ for commercial exposure (EPA, 2013). The TCE detected concentrations were compared to calculated screening levels based on the residential and commercial RSLs of 0.21 $\mu g/m^3$ and 0.88 $\mu g/m^3$, respectively, and the TCE indoor air short-term response action levels of 2 $\mu g/m^3$ for residential exposure and 9 $\mu g/m^3$ for commercial exposure (EPA, 2013). The PCE and TCE soil vapor screening levels were calculated by dividing these residential and commercial indoor air screening levels by the same Attenuation Factors (AF=0.001 [residential] or AF=0.0005 [commercial]). The residential and commercial soil vapor ESLs were used for comparison for compounds where no indoor air RSLs are established.

Benzene was detected above laboratory reporting limits in 5 of 7 vapor samples analyzed (including one replicate sample) and exceeded its residential ESL (42 $\mu g/m^3$) in 2 of 7 vapor samples analyzed (SV-2, 9 feet [69 $\mu g/m^3$] and SV-4, 4.75 feet [99 $\mu g/m^3$]). The benzene concentrations reported did not exceed the commercial ESL (420 $\mu g/m^3$), the residential RSL (360 $\mu g/m^3$), or the commercial RSL (3,200 $\mu g/m^3$). Tetrachloroethene (PCE) was detected above its residential ESL (210 $\mu g/m^3$) and its residential Modified California Indoor Air Screening Level (400 $\mu g/m^3$) in 2 of 7 soil vapor samples analyzed (720 $\mu g/m^3$ [SV-1, 4½ feet] and 740 $\mu g/m^3$ [SV-1 replicate, 4½ feet]). Note that these two PCE detections were detected from one soil vapor probe (SV-1), with one of the detections occurring in the replicate sample. The detected PCE concentrations did not exceed the commercial ESL (2,100 $\mu g/m^3$) or the commercial Modified California Indoor Air Screening Level (4,000 $\mu g/m^3$). PCE was not detected in the other soil vapor samples analyzed. TPH as gasoline and other VOCs were detected but at concentrations below the respective residential and commercial screening levels.

SECTION 4: HYDROGEOLOGY

4.1 HYDROGEOLOGY

Ground water appears present under confined conditions in a sand and gravel layer that extends from approximately 10 feet to 26 feet below ground surface (bgs). The ground water flow direction in this water yielding zone is toward the north. During the Geotechnical Investigation (Cornerstone, May 2014), ground water was encountered at an approximate depth of 10½ feet bgs.

SECTION 5: SITE MANAGEMENT APPROACH

5.1 APPLICABILITY OF THE CONSTRUCTION MANAGEMENT PLAN

Soil, soil vapor and ground water with residual concentrations of contaminants of concern (COC) may be present at various locations beneath the Site. This SMP presents protocol for the following construction activities that may encounter residual COC:

- Building demolition;
- Utility removal;
- Trenching, excavating and grading;
- Subsurface utility installation;
- Building foundation construction;
- Hardscapes; and
- Landscapes.

5.2 GENERAL RISK MANAGEMENT CONSTRUCTION PROTOCOLS

During construction activities, measures will be taken by the General Contractor to minimize dust generation, storm water runoff and tracking of soil off-Site. In addition, measures will be taken to reduce the potential for the creation of preferential pathways (vertical or horizontal) for COCs detected in ground water beneath the Site. The general risk management construction protocols are described below.

5.2.1 Pre-Construction Planning and Notification

Prior to the start of any construction activity that involves below ground work (e.g. mass grading, foundation construction, excavating or utility trenching), information regarding Site risk management procedures (*e.g.*, a copy of this SMP) will be provided to the General Contractor and each of its subcontractor for incorporation into their HSPs.

5.2.2 Site-Specific Health and Safety Worker Requirements

A Site-specific HSP is attached as Appendix A. It was prepared to establish health and safety protocols for personnel working at the Site. This HSP meets federal and State of California (OSHA) standards for hazardous waste operations (29 CFR 1910.120 and 8 CCR 5192).

The General Contractor will be responsible for following the protocols presented in the Site-specific HSP. The Contractor also will prepare their own HSP and Injury and Illness Prevention Plan (IIPP) and will maintain the responsibility for the health and safety of their workers. The General Contractor's HSP will follow the protocols in the Site-specific HSP and will establish health and safety protocols for their personnel and their subcontractors and their personnel in accordance with federal and State of California OSHA standards. The General Contractor's HSP will contain provisions for limiting chemical exposure to construction workers, chemical and non-chemical hazards, emergency procedures, and standard safety protocols. Contractors are required to implement their specific requirements for worker training, based on the level of expected contact to soil, soil vapor, and ground water associated with their workers' activities.

5.2.2.1 Personal Protection Equipment (PPE)

Work activities will be conducted with Level D protection:

- Chemical-resistant steel-toed boots when in contact with ground water or contaminated materials;
- Work boots;
- Work gloves as required; nitrile gloves when in contact with ground water or contaminated materials;
- Safety glasses when risk of contact with ground water;
- Hard hat; and
- Hearing protection (if noise levels exceed 85 dBA).

Coveralls and nitrile gloves are needed only as required to help reduce soiling by contaminated materials.

5.2.3 Site Control

The Site will be fenced and gated with lock. Access to the Site will be limited by the General Contractor to authorized personnel. Site control procedures will be implemented by the Contractor to control the flow of personnel, vehicles and materials in and out of the Site. Signs will be posted by the Contractor instructing visitors to sign in at the project support areas at all Site entrances.

5.2.4 Access Controls

The General Contractor will establish the physical boundaries the Site and shall instruct all workers and visitors on the limits of the restricted areas. No one shall be allowed to enter a restricted area without the required protective equipment for that area. The General Contractor's Site Safety Officer (SSO) shall ensure compliance with all restricted area entry and exit procedures.

Visitors should check in with the General Contractor's SSO immediately upon arrival. Only authorized visitors will be allowed access to active work areas. Each visitor will be required to

provide and wear the necessary protective equipment for use during site visits and shall be escorted by the General Contractor while on site. All visitors, subcontractors and other personnel will be required to sign a safety plan acknowledgement sheet to certify that they have read and will comply with the Site HSP. Failure to comply with this Site entry procedure may result in expulsion from the Site.

5.2.5 Traffic Control

To reduce the potential impacts of construction traffic at the Site, the General Contractor shall employ traffic management measures at the Site: 1) to provide for the safety of on-Site personnel; 2) to reduce the potential for spillage or tracking of soil on or off-Site; 3) to help facilitate concurrent construction activities with remediation activities so that they do not adversely impact or compromise safe traffic flow within the Site; and 4) to limit the disruption of existing traffic flows on local roadways.

Traffic management protocols include:

- Visual monitoring of traffic movements on the Site will be performed by the General Contractor to ensure safe movement of traffic and protection of persons and property around the Site.
- Construction roads will be observed by the General Contractor to confirm road conditions support safe working and driving.
- Each sub-contractor is responsible for compliance with this plan for vehicle and transport safety of personnel and vehicles under their control.
- Drivers of vehicles are responsible for driving safely and exercising care.
- Any track-out on a paved public road at any location where vehicles exit the work Site will be cleaned by using wet sweeping or a HEPA filter equipped vacuum device by the end of each work day. Dry sweeping of paved roadways will be prohibited.
- A maximum vehicle speed limit of approximately 15 miles per hour or less.
- Water applied approximately every 2 hours of active operations or sufficiently often to keep the area adequately wetted.
- Vehicles maintained by covering holes or other openings in cargo compartments such that no spillage can occur.
- Loads wetted and either:
    - Covered with tarps; or
    - Loaded such that the material does not contact the front, back, or sides of the cargo compartment at any point less than ½ foot from the top and that no point of the load extends above the top of the cargo compartment.
- Spills immediately cleared by engaging appropriate safety and response standards as relevant to the event.

5.2.6 Dust Control

The General Contractor will utilize effective means of dust and erosion control to minimize the generation of dust and erosion associated with excavation activities, truck and vehicle traffic onto and off the Site, and the effects of ambient wind traversing exposed soil.

Work activities, such as clearing, demolition, excavation and grading operations, construction vehicle traffic on unpaved ground, and wind blowing over disturbed soil surfaces may generate dust and particulate matter whenever exposed soil surfaces are dry. The General Contractor will minimize dust emissions to the maximum extent possible. To accomplish minimal dust emissions, the General Contractor will implement dust control measures in accordance with Air District rules and regulations.

An effective means of dust control will be utilized to minimize the generation of dust associated with the earthwork activities, truck traffic onto and off the Site, and the effects of ambient wind traversing exposed soil. Dust control measures utilized at the Site will include several or more of the following on an as needed basis:

- Providing equipment and staffing during normal working hours for watering of all exposed or disturbed soil surfaces sufficient to suppress dust plumes.
- Using dust suppressant additives in the water, which can be a small amount of ordinary liquid detergent.
- Covering or wetting of stockpiles of debris, soil, sand or other materials that can be blown by the wind.
- Misting or spraying water while excavating soil and loading transportation vehicles.
- Minimizing drop heights while loading/unloading excavated soil.
- Sweeping adjacent streets of all soil and debris generated from the Site work activities.
- Wetting inactive portions of the Site that have exposed soil surfaces or treating these areas with an approved dust suppressant.
- Suspending earth moving or other dust producing activities during periods of high winds whenever dust control measures are unable to prevent visible dust plumes.
- Watering to control dust will not result in ponded water or runoff. If runoff occurs, it will be contained on-Site.

5.2.7 Perimeter Air Monitoring

If required by the City and/or the Owner/Developer, perimeter air monitoring will be conducted at the Site by either the General Contractor or the Environmental Consultant to document the effectiveness of dust control measures. Prior to the beginning of excavation or grading activities, a windsock or anemometer will be used to monitor the wind direction at the Site and to help determine the location of monitors along the fence lines. Fence line monitoring will be conducted at three locations. Each dust monitor will be positioned within the breathing zone at approximately 5 feet above the ground level. Perimeter monitoring will include the collection of

air samples at one upwind location and two downwind locations. Dust monitoring will conducted daily during demolition, excavation, trenching and grading activities.

5.2.7.1 Dust

- Real time monitoring of total dust (<10 µm diameter) will be conducted daily throughout the duration of the project during activities that may significantly disturb impacted soil. The monitoring will be performed using three DataRAM PDR-1000 particulate monitors. These meters log the detected airborne dust concentrations.

- The particulate meters will be monitored to evaluate if excessive dust is migrating off-Site. Each time the meters are checked, the differences between the average upwind dust concentration and the average downwind concentration will be compared to the ambient air quality standard of 150 µg/m³ (8-hour average) for respirable dust. If this standard is exceeded, increased dust control measures will be implemented. The California Ambient Air Quality Standard for respirable particulate matter (PM10) is 50 µg/m^3 over an averaging time of 24 hours. Based on an 8-hour construction work day, 150 µg/m^3 over an averaging time of 8 hours will average 50 µg/m^3 over 24 hours (16 hours of non-activity). Significant concentrations are defined as exceeding 150 µg/m^3 over an averaging time of 8 hours.

5.2.8 Storm Water Pollution Prevention Plan (SWPPP)

The Clean Water Act and associated federal regulations (Title 40 of the Code of Federal Regulations [CFR] 123.25(a)(9), 122.26(a), 122.26(b)(14)(x) and 122.26(b)(15)) require nearly all sites engaged in clearing, grading, and excavating activities that disturb one acre or more, to obtain coverage under a National Pollutant Discharge Elimination System (NPDES) permit for storm water discharges. A Site-specific Storm Water Pollution Prevention Plan (SWPPP) and Erosion Control Plan covering the activities of Site redevelopment will be prepared by the Civil Engineer (QSD). Contractors and their Subcontractors shall comply with the provisions and protocols of this plan. A copy of the SWPPP shall remain on-Site throughout construction. Storm water pollution controls will be based on best management practices (BMPs), such as those described in “Information on Erosion and Sediment Control for Construction Projects: A Guidebook” (Water Board 1998) and “Erosion and Sediment Control Field Manual, Third Edition (Water Board 1999). The California Stormwater Best Management Practice Handbooks published by the California Stormwater Quality Association (CASQA) (http://www.casqa.org) also reflect current practices and storm water management standards. Sediment and erosion control procedures include, but are not limited to the following:

- Construct temporary berms or erecting silt fences around exposed soil;

- Place straw bale barriers or sediment traps around catch basins or other entrances to storm drains;

- Cover soil stockpiles with plastic sheeting or tarps during rainfall events;

- Thoroughly sweep paved areas exposed to soil excavation/grading activities;

- During storm events, prevent stockpiled soil from entering the storm drain system;

- Provide water for truck cleaning and dust control; and
- Implement other appropriate BMPs.

Maintenance, monitoring and inspection shall be conducted according to the BMPs. Erosion control measures shall be maintained until disturbed areas are stabilized. Changes to this erosion control plan shall be made to meet field conditions only with the approval or at the direction of the Civil Engineer.

5.2.9 Stockpiling

Soil may require temporary stockpiling as needed by the Contractor. The stockpile area will be constructed in accordance with the approved SWPPP.

5.2.9.1 "Clean" Soil

In general, the stockpile area will be clean and free of debris. The stockpile shall be covered with heavy duty plastic (minimum of 10 mil), or watered twice daily, or sprayed with a non-toxic soil binder. All stockpiles will include berms for containment of any water that drains from the soil. Stockpiles will be inspected at least daily. All stockpiles will be handled as to prevent and/or reduce potential dust generation. Additional water spray will be utilized for dust suppression and foam or surfactant will be utilized for stabilization of stockpiles, if necessary.

5.2.9.2 Soil Suspected as Contaminated

Excavated soil suspected to be impacted with unknown contaminants (e.g., soil contaminated from a newly encountered leaking drum or tank) or excavated soil that was in contact with contaminated ground water will require additional stockpiling measures. In general, the stockpile area will be clean and free of debris prior to the placement of the bottom liner. The liners will consist of heavy duty plastic (minimum of 10-mil) as the bottom and top liners. All stockpiles will include berms for containment of any water that drains from the soil. Stockpiles will be inspected at least twice daily and repaired as needed. At the end of each shift or when the stockpile is not in use for two hours or longer, the pile(s) will be securely covered with the heavy duty plastic liner. All stockpiles will be handled as to prevent and/or reduce potential dust generation. Additional water spray will be utilized for dust suppression and foam or surfactant will be utilized for stabilization of stockpiles, if necessary.

5.2.9.3 Stockpile Sampling

The quality of stockpiled soil may require analytical testing so that appropriate disposal alternatives can be determined. Soil samples will be collected from the stockpile in random areas and depths and analyzed for contaminants of concern (COC) in accordance with the following protocols:

- Up to 1,000 cubic yards (cy): One sample per every 250 cy
- 1,000 to 5,000 cy: Four samples for the first 1,000 cy and one sample for each additional 500 cy
- Greater than 5,000 cy: 12 samples for the first 5,000 cy and one sample for each additional 1,000 cy

If COC are detected below DTSC-Recommended Screening Levels for residential use or at ambient/background concentrations for metals, then re-use of the soil will be appropriate. If DTSC-Recommended Screening Levels are not available for a specific COC, residential RSLs and ESLs may be used. If COC are detected above these levels, then County Health staff will be contacted for approval to use the soil on-Site or the soil will be disposed off-Site at a permitted facility. Prior to off-Site disposal at an appropriately permitted facility, soil samples will be collected and analyzed in accordance with the disposal facility requirements.

5.3 GROUND WATER MANAGEMENT PROTOCOLS

5.3.1 Utility Trenches

If utility trenches that extend to an approximate depth of 10 feet or more (or encounter ground water), measures will be implemented to reduce the potential for vapor and ground water migration through trench backfill and utility conduits. Such measures shall include placement of low-permeability backfill "plugs" at selected intervals on-Site and at all locations where the utility trenches extend off-Site. In addition, utility conduits that are placed below ground water will be installed with water-tight fittings to reduce the potential for ground water to migrate into the conduits. The Civil Engineer shall survey and record all '*plug'* placement locations.

Soil in contact with ground water shall be assumed contaminated. If excavated, this soil shall be handled as described in Section 5.2.9.2 and 5.2.9.3.

5.3.2 Excavation Dewatering

Ground water is assumed to be potentially contaminated on-Site; note that ground water contamination may be more widespread than shown on Figure 3. If excavation de-watering is required, the ponded water will be sampled and analyzed prior to pumping to evaluate discharge alternatives. If subsurface parking is planned, pre-excavation ground water sampling should be considered to prepare a dewatering plan. The Developer's environmental consultant will collect a sample of the ground water for laboratory analyses for the COC; other analyses may be required, based on the intended use of the water. Pursuant to Water Board resolution 88-160, the preferred use of the ponded water is recycling or on-Site re-use. If recycling or re-use is not appropriate, based on analytical data or Site circumstances (i.e. more ponded water than is necessary for dust control), the next alternative is discharge to publicly owned treatment works. If recycling/on-Site reuse or discharged to publicly owned treatment works is not appropriate, then treatment and discharge to the local receiving waters (i.e. storm drain) will be evaluated. If the pumped water is to be used for on-Site dust control, concentrations of chemicals of concern will be compared to the lower of the San Francisco Bay Regional Water Quality Control Board's (Water Board's) Environmental Screening Levels (ESLs, December 2014) for fresh or estuarine surface water. If the concentrations detected exceed the ESLs, then County Health staff will be consulted prior to using pumped water for on-Site dust control. Discharge to the sanitary sewer or storm sewer, if any, will be performed under an approved permit from the City of Mountain View or Water Board, respectively. If required, water will be treated prior to discharge.

Alternatively, extracted ground water also may be used as dust control on contaminated stockpiles (if any), provided that no water is allowed to run off the stockpile surface.

5.3.3 Ground Water Wells

The seven ground water monitoring wells installed on-Site reportedly have been destroyed under permit from the Water District. In addition, there is an active potable well at the 1150 Terra Bella. This well reportedly is in process to be destroyed by a licensed well driller under permit with Water District.

5.4 SOIL MANAGEMENT PROTOCOLS

5.4.1 Management of Unanticipated Contamination or Hazardous Debris

During construction activities, if unanticipated contamination (*e.g.*, if soil discoloration or odors are noted), buried structures (*e.g.*, sumps or tanks), or hazardous debris are encountered that may pose a risk to human health or the environment, earthwork in the suspect area will be immediately stopped and worker access to the suspect area will be restricted. The area will be cordoned off using delineators and caution tape, or similar materials by the Contractor. Subsequently, the Environmental Consultant will be immediately notified. The County of Santa Clara Department of Environmental Health (County Health) will be notified within five business days.

Excavated soil will be observed for discoloration or readily apparent chemical odors. If observed, these soils will be designated as potentially contaminated. This potentially contaminated soil will be evaluated through analytical testing by the Environmental Consultant so that appropriate handling and disposal alternatives can be determined.

Soil samples shall be collected from the stockpile or in place soil and analyzed for full list VOCs. If VOCs are detected below their respective residential Environmental Screening Level (ESL, 2013), then re-use of the soil would be appropriate. If COCs are detected above these levels, then regulatory agency staff shall be contacted for approval to use the soil on-Site, or it should be disposed off-Site. Prior to off-Site disposal, additional analytical testing may be required in accordance with the requirements of the selected disposal facility. Any cleanup/remediation of the Site will be required to meet applicable state and local requirements.

If unanticipated contamination is encountered (e.g., leaking drum) that may pose a risk to human health or the environment, earthwork activities in these contaminated materials will be performed by licensed hazardous materials contractors and personnel trained in hazardous waste operations (40-hour OSHA training), if warranted based on COC concentrations. The soil management procedures described in this document will be followed. Soil suspected of being contaminated that is excavated during construction shall be stockpiled separately from “clean” soil. Stockpiled soil that is suspected to be contaminated shall be stockpiled on-Site per the protocols of Section 5.2.9.2.

5.4.1.1 Laboratory Analyses of Confirmation Soil Samples

Collected soil samples will be submitted to a state certified laboratory (dry weight basis) and selectively analyzed for COC identified for the Site:

- Full list Volatile Organic Compounds (VOCs) (EPA Test Method 8260); and
- TPH as diesel and oil (EPA Test Method 8015)

Other analytical test methods may be recommended by the Environmental Consultant and/or required by the Water Board, County Health or landfill (if off-Site disposal is required).

5.4.1.2 Sampling Protocol

Soil samples for laboratory analyses will be collected in new (unused) or pre-cleaned, stainless steel liners. Soil samples for VOC analysis will be collected in 5-gram Core N' One™ capsules following DTSC guidance. The ends of the liners will be covered in a Teflon film, fitted with plastic end caps, taped, and labeled with a sample identification number. Each sample will be assigned a unique sample number. The assigned number will provide a tracking procedure to allow ease of data retrieval, data reduction, and evaluation. The sample identification numbers will be maintained by Cornerstone's field staff on the Daily Field Reports and on the chain-of-custody records. The sample label or tags will be affixed to each sample container. The samples will then be placed in an ice-chilled cooler and transported to a state-certified laboratory with chain of custody documentation.

5.4.1.3 Field Documentation

The Environmental Consultant will be present on-Site during the removal of impacted soil and will be responsible for observing soil conditions, air monitoring, and Contractor's activities. As part of this process, daily field reports documenting Site activities will be completed and made available for inspection by authorized oversight personnel for the duration of the project.

5.4.1.4 Daily Field Reports

Daily field reports will document where, when, how, and from whom project information was obtained. Entries will be complete and accurate enough to permit reconstruction of field activities. Each page will be dated and the time of entry noted. Entries in the daily field reports will include:

- Site name and address
- Recorder's name
- Time of Site arrival/entry and time of Site departure
- A summary of any on-Site meetings
- Quantity of impacted soils excavated
- Quantity of impacted soils temporarily stored on-Site
- Quantity of excavated soils in truckloads transported off-Site
- Names of waste transporters and proposed disposal facilities
- Quantity of import fill material in truckloads
- Deviations from this SMP
- Calibration readings and equipment model for any equipment used

The following information will be recorded during the collection of each sample:

- Sample identification number
- Sample location and description
- Site sketch showing sample location and measured distances
- Sampler's name(s)
- Date and time of sample collection
- Designation of sample as composite or grab

- Type of sample (i.e., matrix)
- Type of preservation
- Type of sampling equipment used
- Field observations and details important to analysis or integrity of samples (e.g., heavy rains, odors, colors, etc.)
- Instrument readings (e.g., photoionization detector [PID], etc.)
- Chain-of-custody form numbers and chain-of-custody seal numbers
- Transport arrangements (courier delivery, lab pickup, etc.)
- Recipient laboratory(ies)

5.4.1.5 Chain of Custody Records

Chain-of-custody records are used to document sample collection and shipment to the laboratory for analysis. All sample shipments for analyses will be accompanied by a chain-of-custody record. Form(s) will be completed and sent with the samples for each laboratory and each shipment. If multiple coolers are sent to a single laboratory on a single day, chain-of-custody form(s) will be completed and sent with the samples for each cooler. The chain-of-custody record will identify the contents of each shipment and maintain the custodial integrity of the samples. Generally, a sample is considered to be in someone's custody if it is either in someone's physical possession, in someone's view, locked up, or kept in a secured area that is restricted to authorized personnel. Until receipt by the laboratory, the custody of the samples will be the responsibility of the sample collector.

5.4.1.6 Photographs

Photographs will be taken by the Environmental Consultant to help document information entered in the daily field report. When a photograph is taken, the following information will be written in the daily field report:

- Time, date, location, and, if appropriate, weather conditions
- Description of the subject photographed
  Name of person taking the photograph

5.4.2 Designated Work Zones

To help prevent the migration of contamination by personnel or equipment, work areas will be divided into three zones: an exclusion zone (EZ), a contamination reduction zone (CRZ) and a support zone. The General Contractor and its subcontractors are responsible for establishing these work zones. The zones are summarized below:

5.4.2.1 Exclusion Zone

The exclusion zones will consist of areas where inhalation, oral contact, or dermal contact with contaminants is considered to be possible. The size and configuration of each area may vary. Each exclusion zone boundary will be clearly and conspicuously marked. A single entry and exit point will be established at each zone. Entry shall be limited to essential personnel or pre-approved visitors.

5.4.2.2 Contamination Reduction Zone

The CRZ will be established between the exclusion zone and support zone. In this area, personnel will begin the sequential decontamination process required to exit the exclusion zone. To prevent off-Site migration of contamination and to facilitate personnel accountability, all personnel will enter and exit the exclusion zone through the CRZ. All vehicles and equipment exiting an EZ will traverse a track-out prevention area consisting of rumble strips or a 20-foot pad of 6-inch minus rock to dislodge materials from wheels and undercarriage. In no event will visible track-out to public roadways be permitted. Potentially contaminated material that is removed will be added to stockpile area, and rinsate generated by decontamination activities will be used for dust control on the contaminated stockpiles (see Section 5.2.9.2), which will be located in lined and bermed areas.

5.4.2.3 Support Zone

The support zone will consist of a clearly marked area where the administrative area, break areas, and changing facilities are located. Smoking, drinking, and eating will be allowed only in designated areas. Sanitation facilities (with hand wash) will be provided in the support zone.

5.4.2.4 Access Controls

The General Contractor will establish the physical boundaries of each zone and shall instruct all workers and visitors on the limits of the restricted areas. No one shall be allowed to enter a restricted area without the required protective equipment for that area. The General Contractor's Site Safety Officer (SSO) shall ensure compliance with all restricted area entry and exit procedures. The General Contractor's SSO also shall designate a decontamination corridor through which personnel may exit from a contaminated area and enter into adjacent clean break areas. Additional responsibilities of the SSO are summarized in the HSP.

5.4.3 Equipment Decontamination

Decontamination procedures shall be established and implemented by the General Contractor to reduce the potential for construction equipment and vehicles to release contaminated soil onto public roadways or other off-Site transfer. A separate decontamination pad will be established for the decontamination of all equipment leaving the EZs. The following will apply:

- Gross soil deposits will be removed manually from tracks, tires, drives, etc. using digging bars, scrapers, etc. before moving to the decontamination pad.
- All surfaces that cannot be sufficiently decontaminated manually will be pressure washed with surfacted water to remove remaining adhering contamination.
- A final rinse will be performed to remove dissolved contaminant, water and surfactant residues.
- Rinsates and dislodged soil and other contaminated material will be added to the impacted stockpiles or directly hauled by trucks for appropriate off-Site disposal.

5.4.4 Monitoring of Soil Vapor in Trenches and Excavations

To evaluate potential risks to construction workers, daily monitoring of soil vapors with an Organic Vapor Monitor (OVM) or similar monitor will be required in all excavations and trenches that are 4 feet or deeper.

5.4.5 General Protective Measures

- All excavating, trenching and grading activities shall be conducted according to Cal OSHA regulations.
- Trenches/excavations 5 feet or deeper shall be sloped, shored or benched.
- Trenches/excavations shall be screened daily with an OVM or similar meter.
- Open trenches/excavations shall be observed daily for readily observable indications of possible cave-ins, hazardous atmosphere or other hazardous conditions.
- If readily observable conditions are noted that could result in cave-in, hazardous atmosphere or other hazardous condition, exposed workers shall be removed from the area until the necessary precautions have been taken to address the concern.
- Trenches/excavations shall be protected with adequate barriers or physical protection.
- Stockpiles of soil shall not be stored within 2 feet of a trench/excavation.
- Where oxygen deficiency (atmospheres containing less than 19.5 percent oxygen) or a hazardous atmosphere exists or could reasonably be expected to exist, the atmosphere shall be tested before workers enter the work area (see HSP in Appendix A).
- Adequate precautions shall be taken to prevent exposures to atmospheres containing less than 19.5 percent oxygen and or hazardous atmospheres, including proper respiratory protection or ventilation.
- Workers shall not work in excavations/trenches in which there is accumulated water or in trenches/excavations in which water is accumulating, unless adequate precautions have been taken against the hazards posed by the accumulation. These measures can include PPE, shoring or water removal.
- Workers shall wash hands thoroughly after handling Site soil or ground water even if they were wearing protective gloves.

5.4.6 Import Fill

5.4.6.1 Geotechnical Engineering Parameters

Imported fill shall be non-expansive inorganic material with a Plasticity Index (PI) of 15 or less. For the backfilling of deeper excavations, a higher PI may be allowable if approved by the Geotechnical Engineer. To help prevent significant caving during excavation activities, imported material should have sufficient fines. Samples of potential import sources should be delivered to the Geotechnical Engineer's office at least 10 days prior to the desired import start date.

Information regarding the import source should be provided, such as any site geotechnical reports. If the material will be derived from an excavation rather than a stockpile, potholes will likely be required to collect samples from throughout the depth of the planned cut that will be imported. At a minimum, laboratory testing will include PI tests. Material data sheets for select fill materials (Class 2 aggregate base, ¾- inch crushed rock, quarry fines, etc.) listing current laboratory testing data (not older than 6 months from the import date) may be provided for our review without providing a sample. If current data is not available, specification testing will need to be completed prior to approval.

Soil corrosion characterization must also be evaluated prior to acceptance. The potential import source should not be more corrosive than the on-Site soils, based on pH, saturated resistivity, and soluble sulfate and chloride testing.

5.4.6.2 Environmental Parameters

To limit the potential introduction of contaminated fill onto the Site, possible sources of import fill to backfill the excavations will be evaluated. Adequate documentation will be required so it can be verified that the fill source is appropriate for the Site by the Environmental Consultant. The documentation will include detailed information on previous land use of the fill source, any environmental site assessments performed and the findings, and the results of any analytical testing performed. If no documentation is available or the documentation is inadequate, or if no analytical testing has been performed, samples of the potential fill material will be collected and analyzed per the protocols established by DTSC. The analyses performed will be based on the fill source and knowledge of the previous land use. The sample frequency for potential fill material will be in accordance with that outlined in the technical document titled, "*Information Advisory on Clean Imported Fill Material*" (DTSC, October 2001).

5.5 SOIL VAPOR MANAGEMENT DURING CONSTRUCTION ACTIVITIES

This section provides the guidance for subsurface construction activities in consideration of the VOC contamination detected in on-Site soil vapor and ground water. Field oversight activities by the Environmental Consultant include:

- Perimeter monitoring of excavations; and
- Soil headspace screening.

5.5.1 Excavation Perimeter Monitoring

Air sampling (breathing-zone) of excavation areas (i.e., trench or other excavation) will be performed in the field for the presence of VOCs using direct-read (real-time) monitors and methods described in this section.

5.5.1.1 Calibration

The direct-read monitor will be calibrated in accordance with the manufacturer's manual. If the instrument readings are irregular and the meter cannot be recalibrated, the meter shall be removed from the field and replaced with a different unit that is capable of being calibrated and used with reliability.

5.5.1.2 Sampling Approach and Frequency

A photo-ionization detector (PID) capable of measuring to at least 10 parts per billion by volume (ppb_v), such as the ppbRAE 3000, will be used to monitor trench and excavation perimeters to evaluate if areas outside the excavation areas are potentially impacted by excavation activities. Samples will be collected over approximately 1 to 5 minute durations every hour around the perimeter of the excavation. Baseline PID samples will be collected for comparison each day, prior to excavation activities and in the ambient air at least 100 feet from the excavation area.

5.5.1.3 Screening and Action Levels

A vapor level will be considered as possibly elevated if the PID reading is 500 pbb_v above background for greater for 10 seconds or more. Respiratory protection will be require if total VOCs are detected at a sustained (approximately 5 minutes) Action Level of 10 parts per million by volume (ppm_v).

5.5.1.4 Response Actions

If PID readings are measured at 500 ppb_v or greater above background for 10 seconds or more in the breathing zone, a representative air canister sample (8-hour) will be collected from this air space and analyzed by the analytical laboratory for TO-15 SIM on a 24 hours response time. Should the TCE results exceed the Urgent Response Action Level (21 micrograms per cubic meter [$\mu g/m^3$] above background), the General Contractor's SSO and the Project C.I.H. (Earth Safety Dynamics) will be notified. If the levels do not recede, engineering controls, such as fans to increase ventilation or application of foam suppressant to disturbed surface areas, may be implemented. Daily 8-hour canister sampling will continue until TCE concentrations are less than 5 $\mu g/m^3$ above background.

Total VOCs at a sustainable concentration of 5 ppm_v above background will require Site personnel to stop work and move upwind 25 feet from the source. After 5 minutes, the location will be monitored. Work can proceed if concentrations decrease to background.

If in the unlikely event PID readings are measured at 10 ppm_v or greater in the breathing zone and concentrations do not recede, the trench/excavation shall be barricaded and the Environmental Consultant and the General Contractor's SSO will be notified to implement appropriate respiratory protection (NIOSH/MSHA-approved respirators equipped with combination organic vapor and P-100 HEPA air purifying cartridges). Daily 8-hour canister sampling will be performed; respiratory projection will be required until approved to be removed by the SSO.

5.5.2 Soil Headspace Screening

Soils suspected as contaminated will be field-screened for the presence of VOCs. Field screening will occur using a PID that measures to at least 10 ppbv. Soil that is field-screened and "cleared" using the field head space method with the PID (discussed below) can be considered "clean" and can be reused for on-Site fill.

5.5.2.1 Calibration

The direct-read monitor will be calibrated in accordance with the manufacturer's manual. If the instrument readings are irregular and the meter cannot be recalibrated, the meter shall be removed from the field and replaced with a different unit that is capable of being calibrated and used with reliability.

5.5.2.2 Soil Screening Procedure

Soil screening will be performed as follows:

- A representative soil sample will be placed into an unused resealable Ziploc plastic bag with a minimum volume of one quart until the bag is approximately half full;
- The bag will be sealed and the soil crumbled by hand while inside the bag;
- After a minimum of 2 minutes, the bag slightly opened to allow the PID probe into its headspace; and
- The sample will be considered as possibly contaminated if the PID reading is 500 ppbv or higher for approximately 10 seconds or more.

5.5.2.3 Potentially Contaminated Soil

Potentially contaminated soil will be segregated and stockpiled as described by Section 5.2.9.2 at a designated, plastic-lined stockpile area.

5.6 VAPOR BARRIER

On a voluntary basis and to provide a higher degree of confidence that the future commercial occupants of the Site will be protected from the potential off-gassing of VOCs, the Developer/Owner shall install a vapor barrier system to effectively eliminate vapor intrusions into the proposed structures. The Developer/Owner's licensed professional engineer shall prepare engineering drawings and specifications for the vapor barrier system. The vapor barrier shall consist of a 60 mil, spray-applied, seamless, solvent free membrane. The membrane shall be applied over a non-woven geotextile that will protect it from puncture from the subgrade. A geotextile constructed of polypropylene fibers also shall be placed over the 60 mil membrane to help protect it from damage during installation of the overlying concrete slab. The general specification package shall at a minimum include the following:

- Material specifications and cut sheets for the vapor barrier including substrate and protective layers;
- Construction specifications for vapor barrier system, including inspection and leak testing procedures for the vapor barrier; and
- Design drawings including foundation plans and typical details showing location and dimensions of the vapor membrane for each of the individual building layouts.
- If the vapor membrane system requires maintenance or repairs due to future construction activities, an appropriately trained contractor shall be retained to perform

this work. A pre-installation conference shall be held with the Developer/Owner prior to any repair to assure proper substrate and installation conditions.

5.7 VEGETATED SWALES AND WATER FEATURES

A vegetated swale is a shallow channel with a dense stand of vegetation covering the side slopes and bottom. Swales are designed to trap particulate pollutants (suspended solids) and reduce the flow velocity of storm water runoff. Runoff ultimately will be captured by PVC pipe and transported to the storm sewer system. Because the Site is known to have pollutants with the potential for mobilization, the Civil Engineer will designed the bottom and sides of the vegetated swales and water features (if incorporated into the design) to be lined with a minimum 10-mil heavy duty plastic to help prevent water infiltration.

SECTION 6: KEY SITE CONTACTS

Key Site contacts are presented below:

Table 4. Key Site Contacts

Organization	Personnel	Responsibility	Email	Phone
Calvano/CRP Mountain View Venture LLC	Matt Edwards	Owner's Representative	matt.edwards@edwardsdev.com	425-214-7372
County Health	Aaron Costa	Hazardous Materials Specialist II	aaron.costa@deh.sccgov.org	408-918-1954
Cornerstone Earth Group	Sarah Kalika, P,G.	Health and Safety	skalika@cornerstoneearth.com	925-788-1999
Cornerstone Earth Group	Ron L. Helm, C.E.G.	Environmental Consultant	rhelm@cornerstoneearth.com	408-245-4600
Cornerstone Earth Group	Danh Tran, P.E.	Geotechnical Consultant	dtran@cornerstoneearth.com	408-245-4600

SECTION 7: LIMITATIONS

Contractors working on-Site are responsible for the health and safety of their employees and subcontractors. This document, an instrument of professional service, was prepared for the sole use of Calvano/CRP Mountain View Venture LLC and their consultants and contractors, and may not be reproduced or distributed to others without written authorization from Cornerstone. Cornerstone makes no warranty, expressed or implied, except that our services have been performed in accordance with the environmental principles generally accepted at this time and location.

SECTION 8: REFERENCES

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CORNERSTONE EARTH GROUP

FIGURES

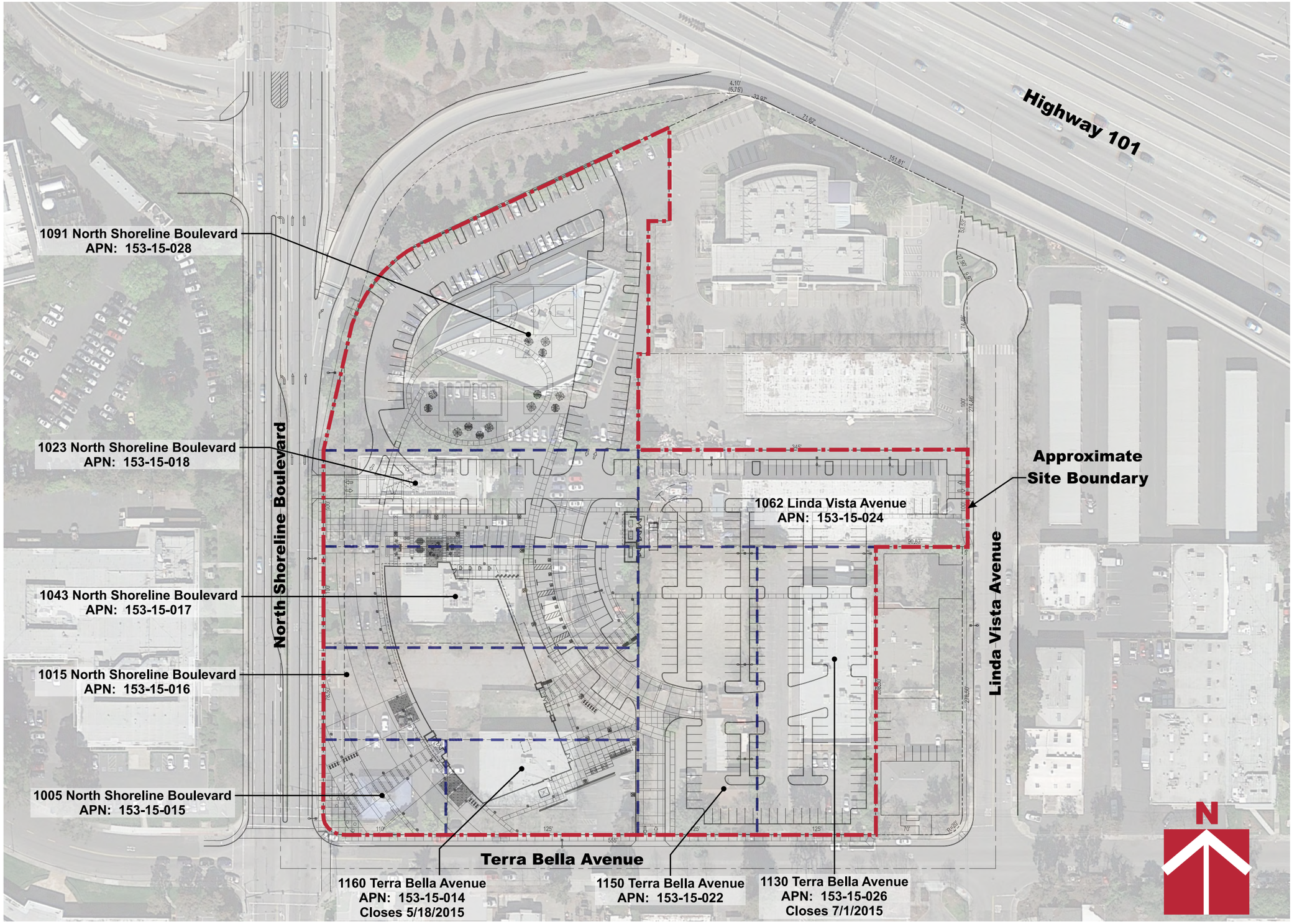


CORNERSTONE EARTH GROUP

Vicinity Map

1001 North Shoreline Boulevard
Mountain View, CA

Project Number	693-1-3
Figure Number	Figure 1
Date	September 2015
Drawn By	RRN



Base by Google Earth, dated 2/23/2014
Overlay by Arc Tec, "Reference Site Plan and Details - A1.01", dated 7/17/2015

Project Number 693-1-3

Figure Number Figure 2

Date September 2015

Drawn By RRN

Existing Parcels and Planned Development

1001 North Shoreline Boulevard
Mountain View, CA

CORNERSTONE EARTH GROUP

Ground Water - Environmental Screening Levels (Water Board, 2013)

TPHd	100 µg/L
TPHg	100 µg/L
Benzene	1 µg/L
TCE	5 µg/L

Highway 101

North Shoreline Boulevard

Approximate Site Boundary

Linda Vista Avenue

Terra Bella Avenue

Location ID	Date	TPHg	Benzene
MW-22H	2/11/10	ND	ND

Location ID	Date	TCE
MW-1	6/27/2005	33 µg/L

Location ID	Date	TCE
MW-2	6/27/2005	46 µg/L

Location ID	Date	TPHd	TPHg	Benzene
B-4	10/14/2010	9,900 µg/L	11,000 µg/L	460 µg/L

Location ID	Date	TPHd	TPHg	Benzene
MW-22G	10/14/2010	ND	ND	ND

Location ID	Date	TPHd	TPHg	Benzene
MW-22E	10/14/2010	3,300 µg/L	7,700 µg/L	58 µg/L

Location ID	Date	TPHd	TPHg	Benzene
B-3	10/14/2010	3,700 µg/L	140 µg/L	ND

Location ID	Date	TPHg	Benzene
MW-22F	11/29/06	ND	ND

Location ID	Date	TCE
MW-3	6/27/2005	46 µg/L

Legend

- Approximate location of destroyed monitoring well
- Assumed location of water supply well at 1150 Terra Bella Avenue. Planned to be destroyed.
- Ground water sample by Stantec (October 2010)
- Approximate extent of TPH and benzene impacted ground water
- Approximate extent of chlorinated VOC impacted ground water
- ND — Not detected above laboratory reporting limits
- µg/L — Micrograms per liter

Exxon (Former Texaco)

Shippen Property

N

0 100 200

APPROXIMATE SCALE (FEET)

Base by Google Earth, dated 2/23/2014

Project Number 693-1-3

Figure Number Figure 3

Drawn By RRN

Date September 2015

Areas of Potential Ground Water Concern

1001 North Shoreline Boulevard
Mountain View, CA

CORNERSTONE EARTH GROUP

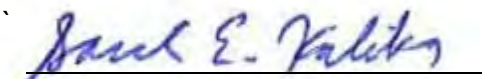
CORNERSTONE EARTH GROUP

APPENDIX A – HSP

CORNERSTONE EARTH GROUP

Type of Services	**Site Specific Health and Safety Plan**
Location	**1001 North Shoreline Boulevard Mountain View, CA 94043**
Owner	**Calvano/CRP Mountain View Venture, LLC C/O Edwards Development & Advisors, LLC**
Client Address	**11900 NE 1st Street, Suite 300 Bellevue, WA 98005**
Project Number	**486-1-9**
Oversight Agency	**County of Santa Clara Department of Environmental Health**
Oversight Agency Address	**1555 Berger Drive, Suite 300 San Jose, CA 95112**
Date	**September 10, 2015**

Prepared by



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CORNERSTONE EARTH GROUP

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ATTACHMENT 1 – HOSPITAL ROUTE

Type of Services	Site Specific Health and Safety Plan
Location	1001 North Shoreline Boulevard Mountain View, CA 94043

SECTION 1: INTRODUCTION

Cornerstone Earth Group (Cornerstone) has prepared this Health and Safety Plan (HSP) to inform its personnel of potential hazards associated with construction activities for the approximately 9.18-acre property located at 1001 North Shoreline Boulevard (Site), as shown on Figures 1 and 2 of the Site Management Plan (SMP) of which this document is an Appendix.

The project will consist of redeveloping the Site for a new Class A office complex (Figure 2 of the SMP). The new four-story office building will have a footprint of approximately 30,000 square feet. The building will be steel-frame construction. The remainder of the Site will be covered with at-grade asphalt concrete pavement and associated flatwork improvements. This HSP was prepared with the assumption that impacted soil vapor and ground water will be encountered during construction activities.

This HSP is intended to supplement the SMP prepared by Cornerstone for the Site and was developed to provide general health and safety guidance such that field activities can be conducted in a safe manner. Contractors will be responsible for the health and safety of their employees during construction activities, and this HSP (as well as the SMP) will be kept on-Site during construction activities involving soil and ground water.

Employees conducting Site activities that may encounter ground water or contaminated materials shall complete a 40-hour HAZWOPER training course (29 CFR 1910.120 (e)), including respirator and personal protective equipment training.

Tables 1, 2, and 3 (below) identify the chemicals of concern (COC) and their greatest concentrations previously reported in soil (Table 1), ground water (Table 2), and soil vapor (Table 3) at the Site.

Table 1. Primary Chemicals of Concern (COC) In Soil

Chemical	Maximum Soil Concentration Reported in 2010	Location
TPH as gasoline	70 mg/kg	Boring B-4
Benzene	0.079 mg/kg	Boring B-4

Table 2. Primary Chemicals of Concern (COC) In Ground Water

Chemical	Maximum Ground Water Concentration Versus Most Recent Concentration as Reported in On-Site Monitoring Wells	Location
TPH as gasoline	MW-22E: 420,000 µg/L (1992) MW-22E: 7,700 µg/L (2010)	South side of building at 1015 North Shoreline 1175 Terra Bella
Benzene	MW-22E: 39,000 µg/L (1989) MW-22E: 58 µg/L (2010)	South side of building at 1015 North Shoreline 1175 Terra Bella
Toluene	MW-22E: 40,000 ug/L (1989) MW-22E: 1 µg/L (2010)	South side of building at 1015 North Shoreline
Ethylbenzene	MW-22E: 6,200 µg/L (1992) MW-22E: 8 µg/L (2010)	South side of building at 1015 North Shoreline
Methyl tert-butyl ether (MtBE)	MW-22E: 340 µg/L (1998) MW-2E: 1 µg/L (2010)	South side of building at 1015 North Shoreline
Trichloroethene (TCE)	MW-1: 13 µg/L (1988) MW-2: 240 µg/L (1988) MW-3: 33 µg/L (1988) 33 to 46 µg/L (2005)	1130 Terra Bella
trans 1,2- dichloroethene (tDCE)	MW-3: 0.64 µg/L (2005)	1130 Terra Bella

Table 3. Primary Chemicals of Concern (COC) In Soil Vapor

Chemical	Maximum Soil Vapor Concentration	Location
Benzene	69 µg/m^3 99 µg/m^3	SV-2 at 9 feet SV-4 at 4.75 feet
Tetrachloroethene (PCE)	740 µg/m^3	SV-1 (replicate sample) at 4½ feet

This HSP addresses the potential hazards posed by the proposed additional site characterization activities and identifies the controls to be implemented for these activities.

SECTION 2: PROJECT SAFETY AUTHORITY

2.1 HEALTH AND SAFETY PERSONNEL

2.1.1 Cornerstone Earth Group and Site Safety Officer (SSO)

The Owner/Developer will provide this HSP to the General Contractor. The General Contractor will appoint an on-Site Site Safety Officer (SSO) for their on-Site personnel. Each subcontractor to the General Contractor also will develop their own Site-specific Health and Safety Plan unique to their assigned tasks. The SSO is an individual who is responsible to the employer and has the authority, training, experience, and knowledge necessary to implement the HSP and verify compliance with applicable safety and health requirements. Each subcontractor will be solely responsible for the health and safety of their employees as well as for compliance with all applicable federal, state, and local laws and guidelines.

The SSO must verify that all on-Site personnel are qualified, trained, and prepared to implement the HSP and safely perform the planned Site work. Field personnel should be required to indicate in writing that they have read and understand the provisions of the HSP.

Safe work practices should be emphasized during safety meetings to be conducted by the SSO and implemented throughout the project.

2.1.2 EXPOSURE MONITORING

Exposure monitoring (if any) and other monitoring will be performed under the supervision of the General Contractor's SSO and/or Health and Safety Manager. The SSO will make recommendations relative to personal protective equipment. The SSO also will conduct additional hazard assessments as necessary and/or as requested.

2.2 ENFORCEMENT OF THE HSP

Enforcement of the policies and practices of the HSP will be the responsibility of the SSO(s). The SSO has the authority to suspend work in the area of the Site where the provisions of the HSP are not being met.

2.3 EVALUATION OF EFFECTIVENESS

The SSO shall evaluate the effectiveness of the HSP. As applicable, deficiencies and associated corrective actions must be documented and a written summary evaluation prepared and maintained on-Site.

SECTION 3: CHEMICAL HAZARD ASSESSMENT AND CONTROL MEASURES

This HSP provides standard operating procedures for personnel involved in activities that may expose them to COCs during remediation and additional Site investigation activities that disturb impacted soil and ground water. Physical hazards also exist. For example, excavating equipment presents a high potential for physical hazards.

Field personnel are required to control chemical exposure primarily through the use of safe work practices and engineering controls (Sections 5.0 to 8.0). The working conditions will be assessed using air monitoring instruments and/or visual observations (Section 6.0).

3.1 EXPOSURE PATHWAYS

The primary exposure pathways for the COC in soil include incidental ingestion, dermal contact, and inhalation of windblown dust during the field activities. The windblown dust potential exposure pathway must be mitigated by appropriate dust removal measures (Section 7.0) implemented during Site remediation and Site construction activities. The ingestion and dermal exposure pathways will be mitigated by personal protective gear and safe work practices.

3.2 ACTIVITIES THAT COULD GENERATE CHEMICAL DUSTS

The following activities that will be performed during the course of activities at the Site could locally release COC-bearing vapors and dusts if control measures described in this plan are not stringently implemented:

- Excavation and stockpiling of potentially impacted soils
- Loading of potentially impacted soils into dump trucks
- Demolition of subsurface structures within potentially impacted soil, ground water, and soil vapor
- Construction of a single-story below grade parking garage within potentially impacted soil, ground water, and soil vapor

Mitigation measures to address the potential release of airborne COC during these activities are described in the following sections of this plan.

3.3 HAZARDOUS SUBSTANCE INFORMATION

Table 4 summarizes the hazardous substance information for the designated COCs.

Table 4. Hazardous Substance Information

COC	Most Recent Concentration as Reported for Ground Water (MW-22E) and Soil (B-4)	TLV or PEL	IDLH	Routes of Exposure	Potential Effects of Overexposure
TPH as gasoline	70 mg/kg (soil) 7,700 µg/L (water)	300 ppm (900 mg/ m^3)	NE	Inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, mucous membranes; dermatitis; headache, lassitude (weakness, exhaustion), blurred vision, dizziness, slurred speech, confusion, convulsions; chemical pneumonitis (aspiration liquid); possible liver, kidney damage
Benzene	0.79 mg/kg (soil) 130 µg/L (water)	1 ppm (3.19 mg/m^3)	NE	Inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin, nose, respiratory system; dizziness; headache, nausea, staggered gait; anorexia, lassitude (weakness, exhaustion); dermatitis; bone marrow depression
Toluene	0.071 mg/kg (soil) 1.0 µg/L (water)	200 ppm (754 mg/ m^3)	500 ppm	Inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, nose; lassitude (weakness, exhaustion), confusion, euphoria, dizziness, headache; dilated pupils, lacrimation (discharge of tears); anxiety, muscle fatigue, insomnia; paresthesia; dermatitis, liver, kidney damage
Ethylbenzene	0.01 mg/kg (soil) 8.0 ug/L (water)	100 ppm (435 mg/ m^3)	800 ppm (10% LEL)	Inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, mucous membrane; headache; dermatitis; narcosis, coma

Table 4 (Continued). Hazardous Substance Information

COC	Most Recent Reported Concentration	TLV or PEL	IDLH	Routes of Exposure	Potential Effects of Overexposure
Methyl tert-butyl ether (MtBE) [CDC & ATSDR fact sheets]	<0.0005 mg/kg (soil) 1 µg/L (water)	40 – 50 ppm (144-180 mg/m^3)	NE	Inhalation, ingestion	Irritation skin; chemical pneumonitis; lowering of consciousness
Trichloroethene (TCE)	46 µg/L (water)	100 ppm (537 mg/m^3) (5 minute maximum peak of 300 ppm [1,611 mg/m^3] in any 2 hours)	1,000 ppm	Inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin; headache, visual disturbance, lassitude (weakness, exhaustion), dizziness, tremor, drowsiness, nausea, vomiting; dermatitis; cardiac arrhythmias, paresthesia; liver injury
Trans 1,2 - dichloroethene (tDCE)	0.64 µg/L (water)	200 ppm (790 mg/m^3)	1,000 ppm	Inhalation ingestion, skin and/or eye contact	Irritation eyes, respiratory system; central nervous system depression
Tetrachloroethene (PCE)	740 ug/m^3 [0.74mg/m^3] (soil vapor)	100 ppm (678 mg/m^3) (200 ppm [1,356 mg/m^3] for 5 minutes in any 3-hour period, with a maximum of 300 ppm [2,034 mg/m^3])	150 ppm	Inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin, nose, throat, respiratory system; nausea; flush face, neck; dizziness, incoordination; headache, drowsiness; skin erythema (redness); liver damage

PEL = Permissible Exposure Limit given in Title 8, CCR, Section 5155, or Threshold Limit Value from ACGIH 2011.
NE= not established.
mg/m^3 = milligrams per cubic meter.
IDLH = Immediately Dangerous to Life and Health.
Routes of entry and acute exposure to symptoms given in NIOSH *Pocket Guide to Chemical Hazards* (U.S. Department of Health and Human Services, September 2007)

3.4 HAZARD EVALUATION

3.4.1 Inhalation

Potential inhalation exposures were conservatively evaluated by assuming that the maximum concentration of COCs in site soil is proportional in a total dust concentration of 5 mg/m^3. This is conservative since total dust at 5 mg/m^3 is visible in air and is the threshold limit value (ACGIH TLV) for nuisance dust and the OSHA PEL for the respirable fraction of nuisance dust particulates, not otherwise regulated (OSHA, 1989).

Alternatively, if the fraction of TPHg concentration in soil (1,700 ppm or 0.0017%) is assumed to be the same as that in the air, then 0.0017 x 5 mg/m^3 = 0.085 mg/m^3, which is below the PEL of 300 mg/m^3.

For all COC reviewed, sampling activities will not likely generate occupationally significant airborne chemical exposures.

3.4.2 Ingestion and Dermal Exposure Pathway Risks

Ingestion and dermal exposure pathways shall be controlled using hygienic measures and protective clothing (Section 5.1).

SECTION 4: PHYSICAL HAZARDS

Physical hazards associated with field sampling activities, such as occupational noise, sampling equipment, heat-related disorders, slips, trips, falls, and falling objects, may be present on-Site and can present a greater risk of injury than the COC in soil at the Site. All activities within the scope of this project must comply with all applicable regulations, including Cal/OSHA standards.

4.1 NOISE HAZARDS

Noise-generating equipment will be used during field activities. The noise levels near this type of equipment may exceed 85 dBA. Elevated noise levels could constitute a hearing hazard and interfere with communication. Employers must protect their field personnel from noise levels exceeding 85 dBA and provide appropriate PPE.

4.2 HEAVY EQUIPMENT HAZARDS

Heavy equipment can pose significant hazards to on-Site employees. Contractors working on-Site must ensure that their motor vehicles and material handling equipment meet the requirements specified in the Department of Industrial Relations, General Industry Safety Orders and Construction Safety Orders (8 CCR Division 1, Chapter 4, Subchapters 4 and 7). The following safe work practices are to be followed during work around heavy equipment:

- Never walk directly behind or to the side of heavy equipment without the operator's knowledge. Be aware of the location and operation of heavy equipment; do not assume that the operator is aware of keeping track of your presence.
- While working on-Site, wear reflective/visible safety vests, maintain visual contact with the operator at all times, and remain alert.
- All heavy equipment must be fitted with audible reversing signals as mandated by OSHA.
- Unless a spotter is present to guide the operator, equipment with an obstructed rear view will have an audible alarm that sounds when moving in the reverse direction.

- Establish hand signals with the operator when verbal communication is not possible.
- Whenever drilling or other operations are conducted in tight quarters, the equipment contractor should make provisions for another person to help guide the operator's movements.
- Hydraulic systems will be fully lowered and parking brakes engaged whenever equipment is not in use.
- All non-essential personnel will be kept out of work areas.
- Deep excavation may require shoring to prevent cave-ins or ground failures.

All heavy equipment used at COC-impacted portions of the Site will remain there until construction activities are completed. Each contractor will be responsible for completely decontaminating equipment in designated decontamination areas.

4.3 HEAT OR COLD-RELATED DISORDERS

Heat (or cold) related disorders could be a significant issue depending upon the temperatures encountered during construction activities. Each contractor is responsible for monitoring their workers for signs and symptoms of heat stress or cold stress. Water must be provided on-Site and the Site supervisor should have first aid/CPR training and be familiar with the early signs of heat related disorders, and appropriate treatment procedures per Cal/OSHA Title 8 CCR 1524 and Title 8 CCR 1512. Accommodations for reduction of cold stress should additionally be provided, as necessary.

4.4 SLIPS, TRIPS, AND FALLS

Slipping, tripping, and falling are the most common sources of injuries at these types of sites. These injuries can be prevented by proper Site control measures, safe work practices, and by keeping the work area free from obstructions. Tailgate safety briefings should be held prior to each day's field activities to identify specific Site locations of concern (slippery surfaces or uneven terrain), and to specify work practices and controls necessary to avoid or eliminate the hazards in those areas.

4.5 BURIED UTILITIES

The buried utilities at the Site (if any) must be identified through Underground Service Alert (USA). If buried utilities, such as natural gas piping, are damaged during construction-related activities, the area should be immediately evacuated and Emergency 911 should be immediately notified. The SSOs should notify all on-Site employees of the rupture and the area of the release should be evacuated.

4.6 MUSCULAR-SKELETON INJURY HAZARDS

Field activities may require some lifting of heavy objects. No one should attempt to lift large, heavy (greater than 50 pounds), or cumbersome objects without assistance. All

on-Site employees who are generally called upon to do frequent lifting are to be instructed in proper lifting procedures.

4.7 BIOLOGICAL HAZARDS

The biological hazards that may be encountered include spiders and bees. A first aid kit to treat minor skin irritations, stings, and bites must be maintained at the Site.

4.8 OTHER HAZARDS

Although not supported by site investigations to date, other unforeseen hazards may be of potential concern. If unusual odors, smoke, and/or unusual signs and symptoms of exposure (upper respiratory tract, eye irritation, behavioral/mood changes) are noticed, work should be stopped at the particular location and workers be directed away from the potential sources of exposure. Cornerstone Earth Group and the SSO(s) will make a determination of hazard and/or determine if outside emergency services are required, prior to allowing work to proceed. Cornerstone Earth Group and/or the SSO(s) will determine if additional investigation and other notifications are required.

SECTION 5: SAFETY EQUIPMENT, PERSONAL HYGIENE

5.1 PERSONAL PROTECTIVE EQUIPMENT (PPE)

Work activities will be conducted with Level D protection:

- Chemical-resistant steel-toed boots when in contact with ground water or contaminated materials;
- Work boots;
- Work gloves as required; nitrile gloves when in contact with ground water or contaminated materials;
- Safety glasses when risk of contact with ground water;
- Hard hat; and
- Hearing protection (if noise levels exceed 85 dBA).

Coveralls and nitrile gloves are needed only as required to help reduce soiling by contaminated materials.

5.2 SANITATION

The Contractor, in accordance with Title 8 CCR 5192, must provide potable water, toilet, and washing facilities at the Site in the support area. Before any eating, smoking, or drinking, personnel will exit exclusion zones (as described in Section 6.1) and wash hands, arms, neck, and face.

SECTION 6: SOIL VAPOR MANAGEMENT DURING CONSTRUCTION ACTIVITIES

This section provides the guidance for construction activities in consideration of the VOC contamination detected in on-Site soil vapor and ground water. Field oversight activities by the Environmental Consultant include:

- Perimeter monitoring of excavations; and
- Soil headspace screening.

6.1 EXCAVATION PERIMETER MONITORING

Air sampling (breathing-zone) of excavation areas (i.e., trench or other excavation) will be performed in the field for the presence of VOCs using direct-read (real-time) monitors and methods described in this section.

6.1.1 Calibration

The direct-read monitor will be calibrated in accordance with the manufacturer's manual. If the instrument readings are irregular and the meter cannot be recalibrated, the meter shall be removed from the field and replaced with a different unit that is capable of being calibrated and used with reliability.

6.1.2 Sampling Approach and Frequency

A photo-ionization detector (PID) capable of measuring to at least 10 parts per billion by volume (ppbv), such as the ppbRAE 3000, will be used to monitor trench and excavation perimeters to evaluate if areas outside the excavation areas are potentially impacted by excavation activities. Samples will be collected over approximately 1 to 5 minute durations every hour around the perimeter of the excavation. Baseline PID samples will be collected for comparison each day, prior to excavation activities and in the ambient air at least 100 feet from the excavation area.

6.1.3 Screening and Action Levels

A vapor level will be considered as possibly elevated if the PID reading is 500 pbbv above background for greater for 10 seconds or more. Respiratory protection will be require if total VOCs are detected at a sustained (approximately 5 minutes) Action Level of 10 parts per million by volume (ppmv).

6.1.4 Response Actions

If PID readings are measured at 500 ppbv or greater above background for 10 seconds or more in the breathing zone, a representative air canister sample (8-hour) will be collected from this air space and analyzed by the analytical laboratory for TO-15 SIM on a 24 hours response time. Should the TCE results exceed the Urgent Response Action Level (21 micrograms per cubic meter [$\mu g/m^{3]}$ above background), the General Contractor's SSO and the Project C.I.H. (Earth Safety Dynamics) will be notified. If the levels do not recede, engineering controls, such as fans to increase ventilation or application of foam suppressant to disturbed surface areas, may be implemented. Daily 8-hour canister sampling will continue until TCE concentrations are less than 5 $\mu g/m^3$ above background.

Total VOCs at a sustainable concentration of 5 ppmv above background will require Site personnel to stop work and move upwind 25 feet from the source. After 5 minutes, the location will be monitored. Work can proceed if concentrations decrease to background.

If in the unlikely event PID readings are measured at 10 ppmv or greater in the breathing zone and concentrations do not recede, the trench/excavation shall be barricaded and the Environmental Consultant and the General Contractor's SSO will be notified to implement appropriate respiratory protection (NIOSH/MSHA-approved respirators equipped with combination organic vapor and P-100 HEPA air purifying cartridges). Daily 8-hour canister sampling will be performed; respiratory projection will be required until approved to be removed by the SSO.

SECTION 7: SITE CONTROL

7.1 SITE CONTROL PROCEDURES

Site control procedures are established to control the potential spread of encountered contamination from the Site. An Exclusion Zone will be established along the perimeter of the areas of contamination that may pose a risk to human health or the environement (or the perimeter of the Site, if desired).

Support Zone
The Support Zone will include administrative and support facilities including, onsite superintendent and administrative offices, supply storage, staging areas, and a maintenance yard where excavating equipment can be mechanically maintained.

Contaminant Reduction Zone (CRZ)
The CRZ will provide a corridor into and out of Exclusion Zones. At this location a tool drop and decontamination area will be established. The tool drop and decontamination area are facilities used to prevent off-Site migration of Site contaminants.

Tool Drop
Miscellaneous hand tools not left in the Restricted Zone will be stored at this location. This part of the facility is to provide a location for miscellaneous tools/equipment storage that may have come in contact with COC bearing soils, but does not require immediate decontamination.

Vehicle Decontamination
Brushing of vehicles and establishment of a 50-foot track-out zone will suffice for decontamination of vehicles. No visible trackout will be permitted onto public roadways, and any visible tracked material must be removed at least daily through wet sweeping or use of a HEPA- filtered vacuum system. A separate decontamination pad will be established for the decontamination of all equipment leaving hazardous waste exclusion zones. The following steps will be performed sequentially:

Step 1: Gross Contamination Removal
Gross soil deposits will be removed manually from tracks, tires, drives, etc. using digging bars, scrapers, etc. before moving onto decontamination pad.

Step 2: Pressure Wash
All surfaces that cannot be sufficiently decontaminated manually and by track out buffer will be pressure washed with surfacted water to remove any remaining adhering contamination.

Step 3: Final water rinse
A final rinse is performed to remove dissolved contaminant, water, and surfactant residues.

Worker Decontamination
Prior to Workers entering the Contaminant Reduction Zone from Restricted areas of the Site, at their work area location, workers will first remove gross accumulations of soil from the boots. All workers and vehicles exiting from restricted areas will require decontamination. This will include facilities consisting of wet methods to allow for the removal of potentially COC impacted soils on exterior surfaces of workers and vehicles.

Upon entering the CRZ, workers will first drop hand tools, miscellaneous tools, tool belts, etc., then proceed to the boot brush area. After wet boot brushing (or washing), workers will proceed with the vacuuming of exterior clothing such as work vests and gloves. After vest/gloves, workers will wet wipe hard hat exterior, interior, and exterior of respirator (if used). Next, Tyvek coveralls (if used) will be removed and placed into a disposal container, than the respirator (if used) may be removed, interior face piece wiped, then bagged.

Water from decontamination operations will be drummed for offsite disposal and/or treatment.

Exclusion Zone
The Exclusion Zone will be clearly demarcated with appropriate signage and barriers. In this zone remedial activities will take place and is therefore restricted to all personnel unless they are properly trained, properly garbed (PPE) and authorized to work in the Exclusion Zone.

7.2 VISITORS

Visitors will not be allowed access to the Exclusion Zone or Contamination Reduction Zone areas of the Site. If the Exclusion Zone is established to encompass the entire Site, visitors will not be allowed on-Site. Visitors failing to adhere to this provision of this HSP will be escorted from the Site.

SECTION 8: DUST REMOVAL PROCEDURES

8.1 EQUIPMENT DUST REMOVAL

Before being removed from the Site and between sampling locations, all equipment and tools (shovel, hand auger, or other sampling equipment) in contact with COC impacted soil must be thoroughly washed to remove residual soil and prevent the transfer of impacted soil to other areas of the Site.

8.2 PERSONNEL DUST REMOVAL

Personnel dust removal includes boot cleansing and removal of soil residues from clothing, hard hat, gloves and brushing off coveralls (if used), removing work gloves and washing hands and face prior to eating, drinking, smoking, or leaving the Site. Workers should minimize the amount of dirt or dust on their hands, face, clothing, and shoes. If any of these are visibly soiled, they should be brushed off and left at the Site. Prior to leaving the Work Area, workers must thoroughly wash hands and face.

SECTION 9: TRAINING AND MEDICAL SURVEILLANCE

Health and safety training and hazard communication must be implemented as addressed below. All on-Site personnel must be familiar with the provisions of this HSP and verify in writing that they have read it and understand it.

Employees conducting construction activities at the site that may encounter contaminated materials shall complete a 40-hour HAZWOPER training course (29 CFR 1910.120 (e)), including respirator and personal protective equipment training. The 8 hour refresher training is required where applicable. The SSO will verify that each and every applicable worker possesses this training.

9.1 SITE-SPECIFIC TRAINING PROGRAM

A Site-specific training program must be instituted prior to Site work. Attendees at all meetings should be documented by signature. The Site-specific training should include a discussion of the following.

1. The health effects (acute and chronic) of the chemical and physical hazards that may be encountered at the Site
2. Proper control measures for the chemical and physical hazards that may be encountered
3. The importance of dust control at the Site
4. Proper personal hygiene procedures
5. Dust removal on equipment and personnel
6. Emergency procedures
7. Proper management of impacted soil
8. Potential physical hazards at the Site

9.2 MEDICAL MONITORING

Periodic medical monitoring is not required for this project. Employees conducting construction activities should be medically cleared to perform their duties for this project, including wearing air purifying respirators, if respirator use is needed.

SECTION 10: EMERGENCY AND CONTINGENCY PLANNING

10.1 RELEVANT FIRST AID PROCEDURES

Minor injuries, including minor cuts, scrapes, and abrasions should be treated on-Site. If an injured individual requires further attention, the individual should be immediately transported to the nearest hospital. Attachment 1 illustrates the route to the nearest emergency medical facility. All accidents, without regard to severity, must be reported in writing to the SSO within 24 hours.

10.2 EVACUATION PROCEDURES

Various emergencies may warrant a Site evacuation. Although these conditions are not anticipated, they may include fire, explosion, chemical release, or other event that could cause personal injury. Emergency evacuation procedures must be discussed in advance of site activities.

10.3 EMERGENCY SERVICES AND CONTACT TELEPHONE NUMBERS

The emergency medical facility designated for this project is El Camino Hospital at 2500 Grant Road**,** approximately 3.6 miles south of the Site (Attachment A). If an injury is serious enough to require ambulance medical transport or the fire department, immediately call 911.

El Camino Hospital
2500 Grant Road
Mountain View, California

Phone: (650) 940-7055

SECTION 11: INJURY AND ILLNESS PREVENTION PROGRAM

All contractors are required to have an Injury and Illness Prevention Program (IIPP) in accordance with Cal OSHA regulations in Title 8 of the California Code of Regulations. Each IIPP must include a discussion of safety measures that are implemented, including the measures presented in this HSP, to help prevent illness and injury to their employees. Investigation and reporting procedures in case of an accident or injury also should be discussed in the IIPP.

SECTION 12: INTERNAL AND EXTERNAL COMMUNICATIONS

All personnel will have a cell phone and/or radio for communication between personnel. Due to the relatively small Site size, verbal commands, radios, and cellular telephones should be adequate means of communication.

12.1 EMERGENCY CONTACT LIST

The list below provides names and telephone numbers for emergency contact personnel. In the event of a medical emergency, personnel will take direction from the SSO or Cornerstone Earth Group's project manager. The SSO or designee will notify the appropriate outside emergency organization.

Table 5. Emergency Contact List

ORGANIZATION	TELEPHONE
Ambulance	911
Police	911
Fire	911
Hospital El Camino Hospital	650-940-7055
Bay Area Air Quality Management District	415-771-6000
Regional Water Quality Control Board	510-464-1255
EPA National Response Center	800-424-8802
Cornerstone Earth Group, Project Manager Ron Helm, CEG	408-245-4600 (office) 408-747-7512 (cell) rhelm@cornerstoneearth.com

SECTION 13: DAILY SIGN-IN SHEETS

A daily sign-in sheet shall be maintained at the Site for all workers and visitors. The worker sign-in sheet and visitor sign-in sheets follow.

Print Name	Signature and Date
Print Name	Signature and Date
Print Name	Signature and Date
Print Name	Signature and Date
Print Name	Signature and Date
Print Name	Signature and Date
Print Name	Signature and Date
Print Name	Signature and Date
Print Name	Signature and Date
Print Name	Signature and Date
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Print Name	Signature and Date
Print Name	Signature and Date
Print Name	Signature and Date
Print Name	Signature and Date

SECTION 14: REFERENCES

California Department of Industrial Relations. Hazardous Waste Operations and Emergency Response, Section 5192.

California Department of Industrial Relations. Table AC-1. *Permissible Exposure Levels for Chemical Contaminants*.

California Department of Industrial Relations. *Hazard Communication, Section 5194*.

National Institute of Occupational Safety and Health (NIOSH). September 2007. *NIOSH Pocket Guide to Chemical Hazards*.

CORNERSTONE EARTH GROUP

ATTACHMENT A – HOSPITAL ROUTE

County of Santa Clara

Department of Environmental Health

1555 Berger Drive, Suite 300
San Jose, California 95112-2716
(408) 918-3400
www.EHinfo.org

October 23, 2015 **SENT VIA ELECTRONIC MAIL ONLY**

Mr. David Kingery (dave.kingery@carlyle.com)
3675 Mt. Diablo Blvd. Suite 310
Lafayette, CA 94549

Subject: Voluntary Cleanup Program: Calvano/CRP Mountain View, 1001 N Shoreline Blvd., Mountain View, CA; SCCo Case No. 06S2W15M04s

Dear Mr. Kingery:

Thank you for submitting the Site Management Plan (SMP) prepared by your consultant Cornerstone Earth Group (Cornerstone) and dated September 15, 2015. The SMP sets forth a strategy to manage soil, groundwater, and soil vapor containing residual levels of Petroleum Hydrocarbons, Tetrachloroethane (PCE), Trichloroethene (TCE), trans 1,2-dichloroehtene (tDCE), Benzene, Toluene, Ethylbenzene, Xylenes, Methyl Tertiary Butyl Ether (MTBE) and other contaminants. The Department of Environmental Health (DEH) conditionally approves the SMP with the following conditions:

APPROVAL CONDITIONS

1. A copy of the SMP must be kept on-site and available to workers at all times.

2. If unexpected contamination is encountered notification to the DEH is required within 48 hours.

3. If the respirable dust air quality standard (150 $\mu g/m^3$ for 8-hour average) is exceeded (through perimeter air monitoring), additional dust suppression should be implemented and a notification to the DEH is required within 48 hours.

4. A copy of the Storm Water Pollution Prevention Plan (SWPPP) should be submitted to the DEH and a copy shall be kept on-site at all times.

5. You must obtain prior approval from the DEH for any soil re-use. The DEH will not allow re-use of soil that has been screened in the field with handheld instruments.

6. You must obtain prior approval from the DEH for any use of contaminated groundwater for dust control or any other groundwater re-use.

7. A well destruction report documenting the destruction of the potable water well at 1150 Terra Bella must be submitted to the DEH within 45 days after destruction.

Board of Supervisors: Mike Wasserman, Cindy Chavez, Dave Cortese, Ken Yeager, S. Joseph Simitian
County Executive: Jeffrey V. Smith

8. The final vapor barrier system design must be submitted to the DEH prior to installation. Documentation of the vapor barrier system installation will also be required.

Please prepare and submit a schedule of the redevelopment work. We may wish to be onsite to observe ongoing activities.

TECHNICAL REPORT REQUEST

Please submit the following technical report to DEH (Attention: Mr. Aaron Costa), according to the following schedule:

Redevelopment Schedule **December 4, 2015**

This technical report is being requested pursuant to our authority under Section 101480 of the California Health and Safety Code. Each report shall include conclusions and recommendations for the next phases of work required to protect water resources, human health and safety, and the environment at the site. We request that all required work be performed in a prompt and timely manner. Revisions to the schedule shall be requested at least two weeks prior to the due date in writing with appropriate justification for the anticipated delays and a proposed revised schedule.

The California Business and Professions Code (Sections 6735, 7835, and 7835.1) require that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments must be performed under the direction of an appropriately registered or certified professional.

PERJURY STATEMENT

All proposals and reports submitted to this office must be accompanied by a cover letter from the responsible party which states, at a minimum, the following:

> "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached proposal or report is true and correct to the best of my knowledge."

This letter must be signed by an officer or legally authorized representative of your company. Future submittals made without the perjury statement may be returned as insufficient.

If you have any questions, please feel free to contact me at (408) 918-1954 or via email.

Sincerely,

Aaron Costa
Hazardous Materials Specialist II
Site Mitigation Program
Aaron.costa@deh.sccgov.org

cc: Mr. Ron Helm, Cornerstone Earth Group, (rhelm@cornerstoneearth.com)
Mr. Matt Edwards, (matt.edwards@edwardsdev.com)
File

September 1, 2016

Mr. Aaron Costa
Santa Clara County
Department of Environmental Health
1555 Berger Drive, Suite 300
San Jose, California 95112

Transmittal of Limited Phase II Grab Groundwater Sampling Activities and Conceptual Site Model, 1066 and 1080 Linda Vista Avenue, Mountain View, Californiafor Church of Scientology of Mountain View

Case No. 06S2W15M05S

Dear Mr. Costa:

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached report is true and correct to the best of my knowledge.

Submitted by:

Ms. Kay Hamilton

Enclosure

Environmental Consultants
and Contractors

7041 Koll Center Parkway
Suite 135
Pleasanton, CA 94566

925 426-0080
FAX 925 426-0707
www.scsengineers.com

SCS ENGINEERS

September 1, 2016
Project No. 01215172.04

Mr. Aaron Costa
Senior Hazardous Materials Specialist
Site Mitigation Program
Santa Clara County
Department of Environmental Health
1555 Berger Drive, Suite 300
San Jose, California 95054

Subject: Limited Phase II Grab Groundwater Sampling Activities and Conceptual Site Model, 1066 and 1080 Linda Vista Avenue, Mountain View, California SCCDEH Voluntary Cleanup Program Case 06S2W15M05s

Dear Mr. Costa:

SCS Engineers (SCS) is pleased to present this Report for Limited Grab Groundwater Sampling Activities and Conceptual Site Model (CSM) Preparation (Report) on behalf of our Client, the Church of Scientology, for the properties located at 1066 and 1080 Linda Vista Avenue in Mountain View, California (Site). We have prepared this Report at your request, to better evaluate the environmental conditions at the Site. The Site location is shown on **Figure 1**.

BACKGROUND

On September 1, 2015, SCS submitted a Phase I Environmental Site Assessment (ESA) Report for the properties addressed as 1066 and 1080 Linda Vista Avenue, Mountain View, California (Assessor's Parcel Numbers – 153-015-025 and 153-025-030) in the City of Mountain View (City), Santa Clara County, California. The ESA Report described the Site history and environmental conditions, which are briefly summarized below.

The Site consists of approximately 2.53 acres of land. The Site vicinity currently consists of vacant commercial businesses. The Site is developed with two buildings with a combined footprint of 31,074 square feet, divided between two structures. An irregular rectangular structure addressed as 1080 Linda Vista Avenue (1080 building) is located on the northern portion of the Site. A smaller, east-west rectangular structure addressed as 1066 Linda Vista Avenue (1066 building) is located on the southern portion of the Site. The buildings exist at the northern extent of Linda Vista Avenue, bounded by Highway 101 to the north. Paved parking and landscaping surround both structures on all sides.

Records dating back to 1939 depict the Site as undeveloped and agricultural land until the 1950s, at which time commercial structures were built. The Site was subsequently used for light

industrial purposes including computer parts and tool manufacturing which resulted in the categorization of a business as a small quantity generator of Resource Conservation and Recovery Act (RCRA) waste. It should be noted that being included on the RCRA small quantity generator database does not imply the improper use, storage or release of such chemicals. The Site has been owned by the Church of Scientology Mountain View since 2008. It is SCS's understanding that previous investigations were performed to address geotechnical issues at the Site, including cone penetrometer testing (CPT) around the building exteriors.

An underground storage tank (UST) was reportedly located near and exterior to the southwestern corner of the 1080 building. Available records indicated that an unauthorized release of gasoline occurred and the UST was removed in 1986. Following UST and piping removal, soils removal and disposal, and groundwater monitoring, the regulatory case was closed by the Santa Clara County Local Oversight Program in 1996. Petroleum hydrocarbons were detected in groundwater monitoring wells just prior to case closure at concentrations below regulatory action levels.

Phase II testing performed at the Site by others in 2008 reportedly identified volatile organic compounds (VOCs) in soil and groundwater beneath the Site. Based on SCS' review of available documents and the preliminary findings of the SCS Phase I ESA for the Site, it appeared that the Site subsurface was impacted by the presence of VOCs, including trichloroethylene (TCE), tetrachloroethylene (PCE), possible breakdown products, and petroleum hydrocarbons.

In a communication to the Church of Scientology Mountain View, the City of Mountain View requested that an assessment of the potential for intrusion of VOC-containing vapors into indoor air be performed to ensure that redevelopment of the on-Site structures adequately addressed the potential vapor intrusion concern. Therefore, SCS performed a phased sequence of investigations, including a limited soil vapor survey, followed by an indoor air survey and limited soil sampling program. The methods for and results of these investigations were presented in reports submitted to the Santa Clara County Department of Environmental Health (SCCDEH).

In July and August 2015, SCS collected soil, soil vapor, and indoor air samples from the Site and surrounding area. Soil vapor samples collected from approximately five feet below ground surface (bgs) in the eastern and central portions of the 1066 Linda Vista Avenue property showed concentrations of PCE and TCE in excess of their respective Environmental Screening Levels (ESLs) published by the San Francisco Bay Regional Water Quality Control Board (RWQCB, 2013). Indoor air samples collected in the central portion of the 1066 Linda Vista Avenue property showed concentrations of benzene, ethylbenzene, and 1,2-dichloroethane (1,2-DCA) above their respective ESLs; however, it should be noted that various chemicals, including a gasoline container, were being stored in this area.

The soil vapor, sub-slab vapor, and indoor air sample results previously obtained by SCS were included in a Summary Report dated August 31, 2015 which was submitted to the SCCDEH. On October 26, 2015, Mr. Jeffrey Smith (Hill), Mr. Tom Graf (GrafCon) and Mr. James Ritchie

(SCS) met with Mr. Aaron Costa (SCCDEH) to discuss the Summary Report and those additional steps needed to enable SCCDEH to approve Site redevelopment activities. Mr. Costa requested submittal of a Workplan for additional assessment soil vapor and sub-slab vapor conditions. SCS and Hill prepared and presented the Workplan on October 28, 2015, and following SCCDEH tentative approval on November 25, 2015, proceeded with implementation.

In January 2016, SCS collected three indoor air samples from the 1066 Linda Vista Avenue building, and two outdoor background ambient air samples from the surrounding area. Results of the January 2016 indoor and ambient air sampling event showed that Site constituents of potential concern (COPCs) were not present above their respective commercial/industrial ESL values inside the 1066 Linda Vista Avenue building when background concentrations of Site COPCs were taken into consideration. Also in January, 2016, SCS collected two soil vapor samples and four sub-slab vapor samples from beneath the 1066 Linda Vista Avenue building interior. Results of the soil vapor and sub-slab vapor sampling showed concentrations of select Site COPCs above their respective commercial/industrial ESL values. Additionally, elevated concentrations of the leak check compound were detected in select sub-slab vapor samples and warranted additional investigation.

SCS returned to the Site in March 2016 to re-sample the four sub-slab vapor locations using vapor pin locks and a helium shroud sample collection apparatus in an effort to limit potential leaks in sampling components. Results of the March 2016 sub-slab vapor sampling showed select Site COPCs present at concentrations exceeding their respective commercial/industrial ESL values.

On April 27, 2016 SCS personnel met with representatives of the SCCDEH to discuss work completed at the Site and tasks which will complete Site characterization and mitigation, thereby enabling SCCDEH to grant case closure. Limited groundwater analytical data exist for the Site, and those data do not sufficiently represent groundwater conditions across the Site. Therefore, the SCCDEH requested that a round of groundwater sampling be performed for assessment of the distribution of petroleum hydrocarbons and VOCs in shallow groundwater across the Site. Furthermore, the SCCDEH requested that Site environmental data be incorporated into a CSM to facilitate evaluation of the Site for closure.

On May 11, 2016, SCS submitted a Work Plan for Limited Phase II Grab Groundwater Sampling to the SCCDEH, and on May 19, 2016, the SCCDEH issued a letter approving the Work Plan and requested submittal of the CSM and groundwater sampling results on or before July 29, 2016.

SCOPE OF WORK

In accordance with the Work Plan, SCS implemenated the tasks described below.

Preliminary Fieldwork

SCS obtained Site access with the property owner, and cleared the proposed grab groundwater sampling locations of utilities. The utility clearance consisted of contacting Underground Service Alert (USA) at least 48 hours in advance of drilling. SCS also retained a private utility locator to identify potential subsurface obstructions near the proposed grab groundwater sampling locations prior to drilling.

Grab Groundwater Sample Collection

SCS collected ten grab groundwater samples, GW-1 through GW-10, from the locations shown on **Figure 2**. SCS utilized a C-57 licensed contractor to perform direct push drilling to approximately 12 feet bgs, the anticipated depth of groundwater based on previous investigations performed at the Site.

The driller installed temporary well screen in each borehole to facilitate groundwater sample collection using small diameter tubing connected to a check valve at the bottom of the temporary well screen. The collected water was decanted into clean laboratory supplied containers. After advancing the soil boring and collecting the grab groundwater samples, the driller decommissioned each boring by backfilling with cement grout to ground surface.

Grab groundwater samples were analyzed for TPHg and VOCs by Environmental Protection Agency (EPA) Method 8260. A soil sample was collected for disposal purposes and was analyzed for TPHg and VOCs by EPA Method 8260. Soil generated during drilling activities was properly disposed of by Instrat, Inc. A copy of the laboratory analytical report for the soil sample collected for disposal purposes is included as Attachment A.

The collected grab groundwater samples were labeled, recorded on a chain-of-custody (COC) form and placed in and ice-chilled cooler for preservation during transport to a California Department of Public Health certified analytical laboratory for the requested analyses.

Grab Groundwater Analytical Results

The results of the grab groundwater sampling activities completed by SCS on May 31 and June 1, 2016 are presented in Table 1. The grab groundwater sampling locations are shown on Figure 2. A copy of the laboratory analytical report is included as Attachment A.

During the grab groundwater sampling event, select Site COPCs were detected above laboratory reporting limits (RLs) in each of the borings. The grab groundwater sample analysis yielded the following results:

- TPHg was reported in five samples at concentrations ranging from 90 to 250 micrograms per liter (µg/L);
- Methyl tertiary butyl ether (MTBE) was reported in three samples at concentrations ranging from 0.58 to 2.1 µg/L;
- Tertiary butyl alcohol (TBA) was reported in one sample at a concentration of 4.1µg/L;

- PCE was reported in six samples at concentrations ranging from 0.63 to 76 µg/L;
- TCE was reported in each of the ten samples at concentrations ranging from 1.3 to 180 µg/L;
- 1,1-dichlorethane (1,1-DCA) was reported in four samples at concentrations ranging from 0.63 to 1.7 µg/L;
- cis-1,2-dichloroethene (cis-1,2-DCE) was reported in each of the ten samples at concentrations ranging from 0.99 to 79 µg/L;
- trans-1,2-DCE was reported in one sample at a concentration of 3.0 µg/L;
- Freon 113 was reported in one sample at a concentration of 7.7 µg/L; and,
- Vinyl Chloride was reported in one sample at a concentration of 0.60 µg/L.

CONCEPTUAL SITE MODEL

In response to the May 19, 2016 letter from SCCDEH, SCS prepared this CSM using available data for the Site and vicinity. The CSM represents Site conditions and explains where pollutants are in the environment and the potential threats that these pollutants pose to human and ecological health, water resources, and the environment. The CSM is used to assess risks and threats to human and ecological receptors and water resources. Our analysis followed guidelines prepared by the RWQCB, San Francisco Bay Region as presented in their Draft Final document, *Assessment Tool for Closure of Low Threat Chlorinated Solvent Sites*, dated July 31, 2009.

The RWQCB (2009) guidance identifies the necessary elements of a CSM, which are as follows:

- Hydrogeologic conditions and framework
- Sources of pollution
- Pollutant distribution within the environment (i.e., nature and extent)
- Actual and potential migration pathways
- Actual and potential exposure pathways and receptors

Each element is further described for the Site below.

Hydrogeologic Conditions and Framework

The Site is located in Mountain View in an area which is generally characterized by a mix of commercial and industrial development. Historically, the area was used for agricultural purposes beginning in the 1930s, until development for commercial and light industrial purposes occurred in the 1960s and 1970s. More recently, the area has been subject to redevelopment, primarily for commercial and mixed use purposes.

The Site is currently owned by the Church of Scientology of Mountain View. The 1066 Linda Vista Avenue building is predominantly used for storage. The 1080 Linda Vista Avenue building is predominantly used for assembly meeting for the Church of Scientology of Mountain View. The surface topography in the area of the Site is relatively flat, gently sloping toward the southern portion of San Francisco Bay located approximately 2.5 miles north of the Site. The

Site is bordered by a property redevelopment project to the west and south, Linda Vista Avenue to the east, and Highway 101 to the north.

The water-bearing formations of the Santa Clara subbasin include Pliocene to Holocene age continental deposits of unconsolidated to semi-consolidated gravel, sand, silt and clay. Two members form this group, the Santa Clara Formation of Plio-Pleistocene age and the younger alluvium of Pleistocene to Holocene age (DWR 1975). Lithologic similarities make distinction between these two units difficult based on available well data. The combined thickness of these two units probably exceeds 1500 feet (DWR 1967).

The Santa Clara Formation is of Plio-Pleistocene age and rests unconformably on impermeable rocks that mark the bottom of the groundwater subbasin (DWR 1975). The Santa Clara Formation is exposed only on the west and east sides of the Santa Clara Valley. Where exposed, it is composed of poorly sorted deposits ranging in grain size from boulders to silt (DWR 1975). Well logs indicate that permeability increases from west to east and that in the central part of the valley permeability and grain size decrease with depth (DWR 1975). Review of groundwater flow information on Geotracker from this Site (1080 Linda Vista Avenue – Robb – Jack) and another upgradient site (924 San Rafael Avenue) indicate groundwater flow is to the northwest.

Site specific geologic data are limited to soil samples collected for lithologic description during the recent grab groundwater sampling event performed on May 31 and June 1, 2016. Generally, Site specific geology consists of a silty clay material. In some portions of the Site, the uppermost two feet consist of soil types ranging from well-graded sands to gravelly sands, and intermixed sands, gravels, and silts. Additionally, some portions of the Site in the greatest depth explored of 12 bgs, consist of sandy gravels and gravelly sands. Groundwater encountered during the recent grab groundwater sampling event was present at depths ranging from 6.43 to 8.41 feet bgs.

Groundwater has also been encountered beneath the adjacent property located 1001 North Shoreline Boulevard (Cornerstone, 2015) at an approximate depth of 10.5 feet within a sand and gravel layer that reportedly extends from approximately 10 to 26 feet bgs.

Source(s) of Pollution

The primary COPC at the Site are PCE, TCE and associated breakdown products, with TPHg considered a lesser COPC. Based on investigations completed by SCS, there do not appear to be current or historic on-Site sources for the VOCs. As noted in a Phase I ESA Report for the Site (SCS, 2015), the 1080 building was listed on the following databases:

- California Leaking Underground Storage Tanks (LUST) – Listed as Robb-Jack Corp;
- CORTESE Database and CORTESE Hist Sites – Listed as Robb-Jack Corp;
- Historic UST Registered – Listed as Comm Bldg, Robb-Jack Corp;
- SWEEPS UST List – Listed as Comm Bldg; and,
- HazNet – Listed as Robert Eitreim.

The 1066 building was listed on the following database:

- RCRA Generators (RCRA GEN) –Main-Champ Co. and Gard-More Circuits listed as small quantity generators of RCRA waste.

The HazNet listing for Robert Eitreim pertained to disposal of an unspecified organic liquid mixture waste (1.6054 tons) at an unnamed disposal facility in Santa Clara County. The SWEEPS UST and Historic UST Registered databases identify a UST as being registered to Robert Eitreim, while the California LUST and CORTESE listings pertain to records associated with the discovery of a gasoline leak from a 1,000 gallon capacity UST, and subsequent assessment and case closure from the Santa Clara County Local Oversight Program (LOP) and the RWQCB. The case was opened in 1986 and closed in 1996 by the SCVWD and approved by the RWQCB, with case records listed to 2012.

A Phase I ESA Report prepared by The EI Consulting Group, Inc. (EI), dated May 30, 2008, also identified the historic Site land use and releases from up-gradient properties as RECs. Regarding the historic Site land use, EI identified past Site tenants of concern that included a snow machine manufacturer, an electronic circuit manufacturer, and a missile company. Specifically, EI noted the potential for petroleum hydrocarbon and/or VOC contamination from the past use of the 1,000 gallon UST and the potential for heavy metal and chlorinated solvent contamination associated with a former circuit board plating operation.

EI identified floor drains inside the 1066 building as possible pathways for chemicals to leak into the soil below. United Soils Engineering (USE) completed a Phase I ESA Update Report in 2002 in which high concentrations of copper were reportedly detected in soil samples collected at the Site. The location of the soil samples were not provided.

It should be noted that the UST has been removed and the UST release case was closed by the SCVWD and RWQCB. The floor drains identified by EI were subsequently inspected by SCS and sealed, and soil samples were collected from underlying soils for chemical analysis. Current Site use does not include any of the noted chemicals or practices of concern identified in the Phase I ESA reports.

The SCS Phase I ESA, the EI Phase I ESA, and the Cornerstone Site Management Plan (SMP) each identified chemical release cases in the Site vicinity, including the Teledyne-Spectra Physics National Priority List (NPL) VOC case, several petroleum hydrocarbon release locations, and hydraulically-upgradient VOC release cases. The Teledyne case, located at 1300 Terra Bella Avenue, approximately 1,200 feet to the west, has been in open remediation to address chlorinated solvents since 1986, including the same types found in the soil and groundwater beneath the Site. Based upon these reports, it appears that VOCs are present in shallow groundwater on a regional basis, sourced from off-Site locations.

Pollutant Distribution within the Environment

The previously noted Site investigations have revealed COPC in limited concentration and extent at the Site as follows:

Indoor Air

On behalf of the Client, SCS conducted indoor air and ambient air (background) sampling during two events, including August 2015 and January 2016. The indoor air sampling results are presented on Table 2, and may be summarized as follows for the August 2015 event:

- Benzene was reported in each sample at concentrations ranging from 0.61 to 8.6 micrograms per cubic meter (µg/m^3);
- Toluene was reported in each sample at concentrations ranging from 2.0 to 53 µg/m^3;
- Ethylbenzene was reported in each sample at concentrations ranging from 0.35 to 8.1 µg/m^3;
- Xylenes were reported in each sample at concentrations ranging from 1.16 to 40 µg/m^3;
- Carbon tetrachloride was reported in each sample at concentrations ranging from 0.55 to 0.58 µg/m^3;
- Chloroform was reported in each sample at concentrations ranging from 0.16 to 1.8 µg/m^3;
- Chloromethane was reported in each sample at concentrations ranging from 1.0 to 1.4 µg/m^3;
- Acetone was reported in each sample at concentrations ranging from 16 to 35 µg/m^3;
- Methylene chloride was reported in each sample at concentrations ranging from 7.8 to 11 µg/m^3;
- Styrene was reported in one sample at a concentration of 4.6 µg/m^3;
- 1,2-DCA was reported in each sample at concentrations ranging from 0.18 to 4.0 µg/m^3;
- 1,1,1-TCA was reported in one sample at a concentration of 0.28 µg/m^3;
- PCE was reported in each sample at concentrations ranging from 0.26 to 1.2 µg/m^3; and,
- TCE was reported in one sample at a concentration of 0.6 µg/m^3.

The outdoor ambient air samples yielded the following results (for samples BG-1 and BG-2, respectively):

- Benzene was reported in both samples at concentrations of 0.40 and 0.44 µg/m^3;
- Toluene was reported in both samples at concentrations of 0.81 and 0.87 µg/m^3;
- Ethylbenzene was reported in both samples at concentrations of 0.16 and 0.17 µg/m^3;
- Xylenes were reported in both samples at concentrations of 0.77 and 1.71 µg/m^3;
- Carbon tetrachloride was reported in both samples at concentrations of 0.54 and 0.56 µg/m^3;
- Chloromethane was reported in both samples at concentrations of 1.0 and 1.1 µg/m^3;

- Acetone was reported in both samples at concentrations of 6.9 and 7.1 µg/m^3; and,
- Methylene chloride was reported in one sample at a concentration of 1.3 µg/m^3.

Benzene, ethylbenzene, carbon tetrachloride, and 1,2-DCA were detected in indoor air samples above the respective ESLs for commercial land use. A second round of indoor and background air samples were subsequently collected at the Site in January 2016 after the building interior was cleaned and previously stored chemicals were removed.

- Benzene was reported in each sample at concentrations ranging from 0.77 to 0.78 µg/m^3;
- Toluene was reported in each sample at concentrations ranging from 1.8 to 3.1 µg/m^3;
- Ethylbenzene was reported in each sample at concentrations ranging from 1.70 to 3.13 µg/m^3;
- Xylenes were reported in each sample at concentrations ranging from 1.70 to 3.13 µg/m^3;
- Carbon tetrachloride was reported in each sample at concentrations ranging from 0.38 to 0.40 µg/m^3;
- Chloroform was reported in one sample at a concentration of 0.16 µg/m^3;
- Chloromethane was reported in each sample at concentrations ranging from 1.0 to 1.1 µg/m^3;
- Acetone was reported in each sample at a concentration of 14 µg/m^3;
- Methylene chloride was reported in each sample at concentrations ranging from 7.1 to 13 µg/m^3;
- 1,2-DCA was reported in two samples at concentrations ranging from 0.13 to 0.16 µg/m^3;
- PCE was reported in each sample at concentrations ranging from 0.38 to 0.58 µg/m^3; and,
- TCE was reported in one sample at a concentration of 0.22 µg/m^3.

The outdoor ambient air samples yielded the following results (for samples BG-1 and BG-2, respectively):

- Benzene was reported in both samples at concentrations of 1.1 and 0.94 µg/m^3;
- Toluene was reported in both samples at concentrations of 5.5 and 2.4 µg/m^3;
- Ethylbenzene was reported in both samples at concentrations of 1.4 and 0.52 µg/m^3;
- Xylenes were reported in both samples at concentrations of 5.9 and 2.22 µg/m^3;
- Carbon tetrachloride was reported in both samples at concentrations of 0.36 and 0.39 µg/m^3;
- Chloroform was reported in sample BG-1 at a concentration of 0.16 µg/m^3;
- Chloromethane was reported in both samples at concentrations of 1.2 and 0.93 µg/m^3;
- Acetone was reported in both samples at concentrations of 30 and 6.6 µg/m^3;
- Methylene chloride was reported in sample BG-1 at a concentration of 1.3 µg/m^3;
- 1,2-DCA was reported in sample BG-1 at a concentration of 0.22 µg/m^3; and,
- PCE was reported in sample BG-1 at a concentration of 0.73 µg/m^3.

The second indoor air sampling event demonstrated the lack of benzene in indoor air above ambient background concentrations, indicating that the elevated detection in August 2015 was

likely due to materials stored in the building. Consistent with the August 2015 sampling event, the January 2016 event yielded benzene and carbon tetrachloride in air samples collected outside of the building (background or ambient air samples) at concentrations higher than or equal to concentrations detected within the 1066 building (indoor air samples). These concentrations are above the respective ESLs for commercial land use.

Based upon the historic indoor air and ambient air sampling results, SCS concluded that indoor air within the on-Site building has not been deleteriously affected by intrusion of VOC-containing vapors from the subsurface.

Soil Vapor and Sub-Slab Vapor

Soil vapor was investigated at the Site during two events including July 2015 at locations SV-1 through SV-10 across the Site and a second event in January 2016 at locations SV-5 and SV-6 beneath the 1066 building slab. Tables 3 and 4 provide the soil vapor and sub-slab vapor analytical results, and Figure 3 provides the sample locations.

The Site-wide soil vapor survey indentified COPC as follows:

- TPHg was reported in four samples at concentrations ranging from 1,300 to 6,100 µg/m^3;
- Benzene was reported in five samples at concentrations ranging from 8.5 to 31 µg/m^3;
- Toluene was reported in eight samples at concentrations ranging from 7.1 to 230 µg/m^3;
- Ethylbenzene was reported in four samples at concentrations ranging from 5.4 to 23 µg/m^3;
- Xylenes (m,p) were reported in seven samples at concentrations ranging from 9.2 to 81 µg/m^3;
- Xylene (o) was reported in five samples at concentrations ranging from 6.4 to 25 µg/m^3;
- PCE was reported in seven samples at concentrations ranging from 16 to 2,500 µg/m^3;
- TCE was reported in seven samples at concentrations ranging from 36 to 4,300 µg/m^3;
- 1,1-DCA was reported in two samples at concentrations of 5.8 and 21 µg/m^3;
- 1,1-DCE was reported in one sample at a concentration of 32 µg/m^3;
- Cis-1,2-DCE was reported in four samples at concentrations ranging from 8 to 28 µg/m^3;
- Trans-1,2-DCE was reported in one sample at a concentration of 28 µg/m^3;
- 1,1,1-trichloroethane (TCA) was reported in four samples at concentrations ranging from 24 to 340 µg/m^3;
- Acetone was reported in seven samples at concentrations ranging from 37 to 120 µg/m^3; and,
- Methyl ethyl ketone (MEK) was reported in two samples at concentrations of 20 and 24 µg/m^3.

Chloroform was detected in the soil vapor sample collected from probe SV-2 above the laboratory RL; however, this is not considered to be a Site COPC and may be due to laboratory analytical method interference. 1,1-difluoroethane, used as a leak checking compound, was detected in two of the soil vapor samples, SV-8 and SV-10, collected and submitted for analysis to

Eurofins. Only two locations, SV-5 (PCE) and SV-6 (PCE and TCE) yielded one or more COPC above a corresponding ESL value for commercial land use.

Based on these results, SCS performed a second soil vapor survey in January 2016, focusing upon locations SV-5 and SV-6. The soil vapor sample analysis yielded the following results:

- TPHg was reported in SV-5 at a concentration of 4,800 µg/m^3;
- Toluene was reported in SV-5 at a concentration of 12 µg/m^3;
- Ethylbenzene was reported in SV-5 at a concentration of 5.8 µg/m^3;
- Xylenes (m,p) were reported in SV-5 at a concentration of 17 µg/m^3;
- Xylene (o) was reported in SV-5 at a concentration of 9.0 µg/m^3;
- PCE was reported in SV-5 and SV-6 at concentrations of 220 and 2,200 µg/m^3, respectively;
- TCE was reported in SV-5 and SV-6 at concentrations of 110 and 2,700 µg/m^3, respectively;
- 1,1-DCA was reported in SV-6 at a concentration of 26 µg/m^3;
- 1,1-DCE was reported in SV-6 at a concentration of 190 µg/m^3;
- cis-1,2-DCE was reported in SV-6 at a concentration of 84 µg/m^3;
- trans-1,2-DCE was reported in SV-6 at a concentration of 9.6 µg/m^3; and,
- 1,1,1-TCA was reported in SV-6 at a concentration of 400 µg/m^3.

Chloroform was detected in the soil vapor sample collected from probe SV-5 above the laboratory RL; however, this is not considered to be a Site COPC and may be due to laboratory analytical method interference. Chloroform was not detected above the commercial ESL value. The leak check compound, 1,1-difluoroethane, was detected in soil vapor sample SV-5 at a concentration of 71 parts per billion by volume (ppbv), but was not detected above the laboratory RL in the sample collected from probe SV-6.

During the second event, only PCE was detected above the commercial ESL value in soil vapor sample SV-6. No other Site COPCs were detected above corresponding commercial ESL values. Based upon these results, the extent of residual COPC (PCE and TCE) in soil vapor appears to be limited to a portion of the area beneath the building 1066 slab.

In January 2016, coincident with the second, focused soil vapor sampling event, SCS also conducted a sub-slab vapor survey at four locations in proximity to vapor probes SV-5 and SV-6. Sub-slab vapor probes SS-5A, SS-5B, SS-6A, and SS-6B yielded the following results:

- TPHg was reported in two samples at concentrations ranging from 18 to 51 µg/m^3;
- Toluene was reported in two samples at concentrations ranging from 6.4 to 17 µg/m^3;
- PCE was reported in each sample at concentrations ranging from 120 to 1,700 µg/m^3;
- TCE was reported in three samples at concentrations ranging from 120 to 420 µg/m^3;
- 1,1-DCE was reported in one sample at a concentration of 68 µg/m^3;

- 1,1,1-TCA was reported in two samples at concentrations ranging from 13 to 160 µg/m^3; and,
- Acetone was reported in two samples at concentrations ranging from 56 to 240 µg/m^3.

None of the results exceeded a corresponding ESL value for commercial land use. However, due to detections of elevated concentrations of the leak check compound 1,1-difluoroethane in samples SS-5A and -5B, the analytical results for these samples was considered to be suspect. Therefore, SCS performed a second sub-slab soil vapor sampling event in March 2016 using vapor pins and a helium shroud to minimize the potential for sample train compromise.

During the sub-slab vapor re-sampling event, select COPC were detected as follows:

- TPHg was reported in each sample at concentrations ranging from 1,200 to 11,000 µg/m^3;
- Benzene was reported in each sample at concentrations ranging from 2.7 to 500 µg/m^3;
- Toluene were reported in each sample at concentrations ranging from 2.8 to 43 µg/m^3;
- Ethylbenzene was reported in each sample at concentrations ranging from 2.4 to 44 µg/m^3;
- Xylenes were reported in three samples at concentrations ranging from 9.9 to 35 µg/m^3;
- PCE was reported in each sample at concentrations ranging from 710 to 2,900 µg/m^3;
- TCE was reported in each sample at concentrations ranging from 140 to 330 µg/m^3;
- 1,1-DCE was reported in three samples at concentrations ranging from 7 to 14 µg/m^3;
- 1,1,1-TCA was reported in each sample at concentrations ranging from 16 to 210 µg/m^3;
- Acetone was reported in each sample at concentrations ranging from 110 to 350 µg/m^3; and,
- MEK was reported in two samples at concentrations of 110 and 170 µg/m^3.

The leak check compound helium, was detected in each sub-slab vapor sample, at percentage concentrations ranging from 0.074 to 3.8, below the 5% threshold established by the DTSC. Based on this finding, the sub-slab re-sampling data were considered valid and reliable.

Sub-slab vapor results from the March 2016 event were generally consistent with to slightly higher than results from the January 2016 event. Two samples (SS-5A and SS-5B) yielded PCE slightly in excess of the corresponding ESL value for commercial land use, and one sample (SS-6A) yielded benezene slightly above the corresponding ESL value for commercial land use. No other results exceeded corresponding commercial ESL values.

Sub-slab vapor results were generally lower in concentration than the five foot bgs soil vapor results described above. The soil vapor and sub-slab vapor results indicate that concentrations of Site COPCs decrease vertically as they approach the building sub-slab foundation.

Shallow Soil

Shallow soil has been investigated by EI (2008) and SCS (2015). SCS was unable to locate a complete copy of the EI report, and we therefore could not accurately identify sample locations. However, the reported data, as well as the SCS soils data may be summarized as follows. Seven soil samples were analyzed for VOCs, with reported detections of TCE in three samples at concentrations ranging from 7.5 to 12 micrograms per kilogram (µg/kg) or parts per billion (ppb) and PCE in one sample (6.9 ppb), each at concentrations well below corresponding ESL values for commercial or residential land use.

Arsenic, copper, lead, and nickel were detected above the commercial/industrial land use ESL in soil sample Soil4 collected from approximately two feet bgs beneath the 1066 building slab. Additionally, arsenic was detected above the commercial/industrial land use ESL in the soil samples collected from Soil1 at approximately five feet bgs and Soil2 at approximately two feet bgs. Arsenic concentrations detected above the commercial/industrial land use ESL ranged from 3.3 to 5.0 milligrams per kilogram (mg/kg). Table 5 provides the soil analytical results, and Figure 3 presents the SCS soil sample locations.

Arsenic concentrations detected in select soil samples collected from the Site were well within what are considered to be background concentrations for the San Francisco Bay area (Bradford et. al., March 1996; City of Oakland, January 1, 2001; and Duverge, December 2011) although in excess of the corresponding ESL value (RWQCB, 2016). The RWQCB considers an arsenic value of 11 mg/kg to be a background value, and the concentrations of arsenic in Site soils ranged from 0.93 to 5 mg/kg. California regulatory agencies generally do not require remediation/mitigation of metals to below background concentrations. The presence of residual metals concentrations above commercial ESL values at one location beneath the 1066 building slab does not appear to be a pathway by which on-Site workers (employees) would be exposed to the soils.

None of these residual concentrations of COPC in soils appear to represent a source requiring further assessment or mitigation.

Shallow Groundwater

Shallow groundwater conditions were previously assessed during a limited investigation by EI (2008); however, SCS was provided with only a partial copy of the report, and we were unable to accurately locate the sample collection points. As described above, the grab groundwater sampling activities completed by SCS on May 31 and June 1, 2016 yielded the following results:

- TPHg was reported in five samples at concentrations ranging from 90 to 250 µg/L;
- MTBE was reported in three samples at concentrations ranging from 0.58 to 2.1 µg/L;
- Tertiary butyl alcohol (TBA) was reported in one sample at a concentration of 4.1µg/L;
- PCE was reported in six samples at concentrations ranging from 0.63 to 76 µg/L;

- TCE was reported in each of the ten samples at concentrations ranging from 1.3 to 180 µg/L;
- 1,1-DCA was reported in four samples at concentrations ranging from 0.63 to 1.7 µg/L;
- cis-1,2-DCE was reported in each of the ten samples at concentrations ranging from 0.99 to 79 µg/L;
- trans-1,2-DCE was reported in one sample at a concentration of 3.0 µg/L;
- Freon 113 was reported in one sample at a concentration of 7.7 µg/L; and,
- Vinyl Chloride was reported in one sample at a concentration of 0.60 µg/L.

Analytical results from the recent grab groundwater sampling event (Table 1) were compared to the Groundwater ESLs – Groundwater Vapor Intrusion Human Health Risk Levels – Shallow Groundwater – Commercial/Industrial (RWQCB, 2016).

Results of the recent grab groundwater sampling event show that PCE was detected in two samples, GW-1 and GW-2, at concentations above the ESL, TCE was detected in three samples, GW-6 through GW-8, at concentrations above the ESL and vinyl chloride was detected in one sample, GW-5, at a concentration above the ESL. The most elevated PCE concentrations were reported in the samples collected near the southern Site boundary, in the apparent upgradient-most locations. More elevated concentrations of TCE, and PCE breakdown products, were detected in grab groundwater samples collected along the eastern, upgradient boundary of the Site.

The recent grab groundwater analytical results appear to indicate that PCE is migrating onto the Site from the adjacent property to the southeast. The highest concentrations of PCE were detected in samples collected along the fenceline with the southern property. The highest concentrations of TCE, a breakdown product of PCE, were detected in the upgradient eastern to northeastern portions of the Site. Additionally, the highest concentrations of further breakdown products such as 1,1-DCA, cis-1,2-DCE, and trans-1,2-DCE were detected in the eastern to northeastern portions of the Site.

Actual and Potential Migration Pathways

Residual primary COPC, namely TCE and PCE are present above corresponding ESL values in shallow groundwater and soil vapor/sub-slab vapor. The metals copper, lead and nickel are present at one shallow location beneath the 1066 building slab above corresponding ESL values, along with arsenic above ESL values but within background ranges for the area. Benzene and carbon tetrachloride are present above corresponding ESL values in indoor and outdoor air; however the distribution of these volatile compounds in air across the Site indicates their presence is likely due to a regional or ambient condition, rather than due to a Site-related source.

Based upon these data, the actual and potential migration pathways for Site COPC are considered to be as follows:

- Soil Vapor and Sub-Slab Vapor as a pathway for migration of VOC-containing vapors, either upward into overlying structures, or downward via leaching to groundwater;
- Soil as a pathway for migration of metals, downward via leaching to groundwater; and,
- Shallow groundwater as a pathway for migration of dissolved VOCs, laterally, with possible volatilization of VOCs into the vadose zone and/or overlying structures.

Each actual/potential pathway is further discussed below.

Soil Vapor and Sub-Slab Vapor

Soil vapor beneath the 1066 building contains PCE and TCE at concentrations in excess of commercial land use ESL values. VOC-containing vapors may move within the vadose zone through diffusion from an area of higher concentration (source) and/or by advection (pressure differential) into overlying structures or along preferential pathways such as utility corridors.

Site subsurface data demonstrate the lack of a VOC source area, and therefore, while diffusion may occur, there is no driving force to cause significant migration of VOC-containing vapors away from the locations of most elevated concentration. Indoor air concentrations do not indicate that vapor intrusion through the building slab is occurring. The elevated sub-slab concentrations of PCE follow the pattern measured for vapors where concentrations of vapor typically increase under confined building areas.

In addition, because the presence of vapors is due to off-gassing from groundwater, the potential for downward vertical migration of VOCs from soil vapor to underlying shallow groundwater is limited.

Shallow Soil

Soil in one location beneath the 1066 building contains concentrations of metals (arsenic, copper, lead, and nickel) at concentrations in excess of commercial land use ESL values. Due to the low mobility of metals in soils, the primary potential for migration is limited to vertical migration to shallow groundwater due to infiltration of low pH water, which has not been measured on-Site. This possibility is further limited by the presence of an overlying structure and intact building slab.

Shallow Groundwater

Shallow groundwater beneath the Site, primarily the central and eastern portions, contains dissolved COPC, including PCE, TCE and vinyl chloride in concentrations above ESLs in one or more samples. The concentrations of these constituents attenuate laterally from the upgradient locations where they are measured.

Actual and Potential Exposure Pathways and Receptors

The potential exposure pathways for Site COPC are as follows:

- Exposure to VOC-containing soil vapor and sub-slab vapor (inhalation);
- Exposure to metals-impacted soil (dermal contact/ingestion); and,
- Exposure to VOC-containing groundwater (ingestion).

Exposure to VOC-Containing Soil Vapor and Sub-Slab Vapor (Inhalation)

Soil vapor beneath the 1066 building contains PCE and TCE at concentrations in excess of commercial land use ESL values. The potential exists for intrusion of VOC-containing vapors into indoor air at the Site, particularly the 1066 building. However, the concentrations of VOCs in soil vapor beneath the 1066 building attenuate vertically from soil vapor sample locations to the sub-slab vapor locations. Furthermore, the COPC detected at elevated concentrations in soil vapor and sub-slab vapor beneath the 1066 building were not detected at elevated concentrations in indoor air within the 1066 building. Therefore, the potential for a complete exposure pathway for inhalation of COPC-containing vapors via vapor intrusion is low, and is considered an incomplete pathway.

Exposure to Metals-Impacted Soil (Dermal Contact/Ingestion)

Soil in one location beneath the 1066 building contains concentrations of metals (arsenic, copper, lead, and nickel) at concentrations in excess of commercial land use ESL values. The potential exposure pathway to these soils is through dermal contact during construction work. This potential exposure pathway can be rendered incomplete through implementation of an SMP. Therefore, the potential for a complete exposure pathway for dermal contact or ingestion of COPC-containing soils via direct contact is low, and is considered an incomplete pathway.

Exposure to VOC-Containing Groundwater (Ingestion)

Shallow groundwater beneath the Site, primarily the southern and eastern portion, contains dissolved COPC, including PCE, TCE and vinyl chloride in concentrations above ESL in one or more samples. The potential exposure pathway to COPC affected groundwater would be via use of groundwater for irrigation, domestic supply or other uses in conjunction with one or more water supply wells. There are no wells present on the Site, and the potential for future use of shallow groundwater for irrigation, domestic supply or otherwise is considered extremely low. This pathway is therefore considered incomplete.

SUMMARY AND CONCLUSIONS

Investigation of Site media by SCS has documented that COPC are present above commercial land use ESLs in limited extent in shallow groundwater and soil vapor beneath the Site. Ambient air across the Site contains benzene and carbon tetrachloride at concentrations above

ESLs for commercial land use. Shallow soil in one location beneath the 1066 building slab also contains select metals above the commercial land use ESL.

Based on results of investigations performed at the Site and in surrounding areas, SCS believes that:

- There does not appear to be an on-Site source of PCE or TCE in the Site subsurface;
- There does not appear to be a significant residual source of VOCs or other constituents in the Site subsurface; and,
- The concrete slab foundation for the 1066 Linda Vista building appears to provide adequate protection to on-Site workers (employees) from being exposed to Site COPCs above the established ESL values relevant to the Site.

The analysis presented in the CSM demonstrates a lack of existing source for the COPCs, incomplete exposure pathways, and a lack of threatened receptors.

These conclusions assume the following:

- Continued (future) land use will be consistent with current practices;
- Groundwater will not be used for irrigation or drinking supply purposes;
- Earthwork performed at the Site will follow procedures described in a SMP; and,
- Any disturbance of the building slab for the 1066 building will be followed by indoor air sampling within the 1066 building to document satisfactory indoor air quality.

Based upon the foregoing, SCS requests that the SCCDEH agree to close the case for the Site, with the understanding that the above listed items will be conducted by the Church of Scientology within an agreed-upon period.

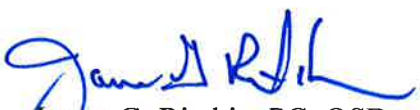
CLOSING

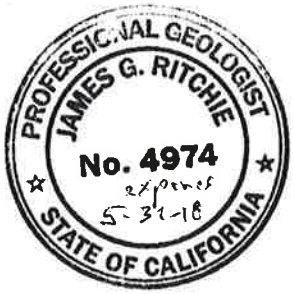
SCS appreciates the opportunity to work with you on this important project. Should you have any questions, please call us at (925) 426-0080.

Sincerely,



Alex Tuveson, EIT
Project Engineer
SCS ENGINEERS



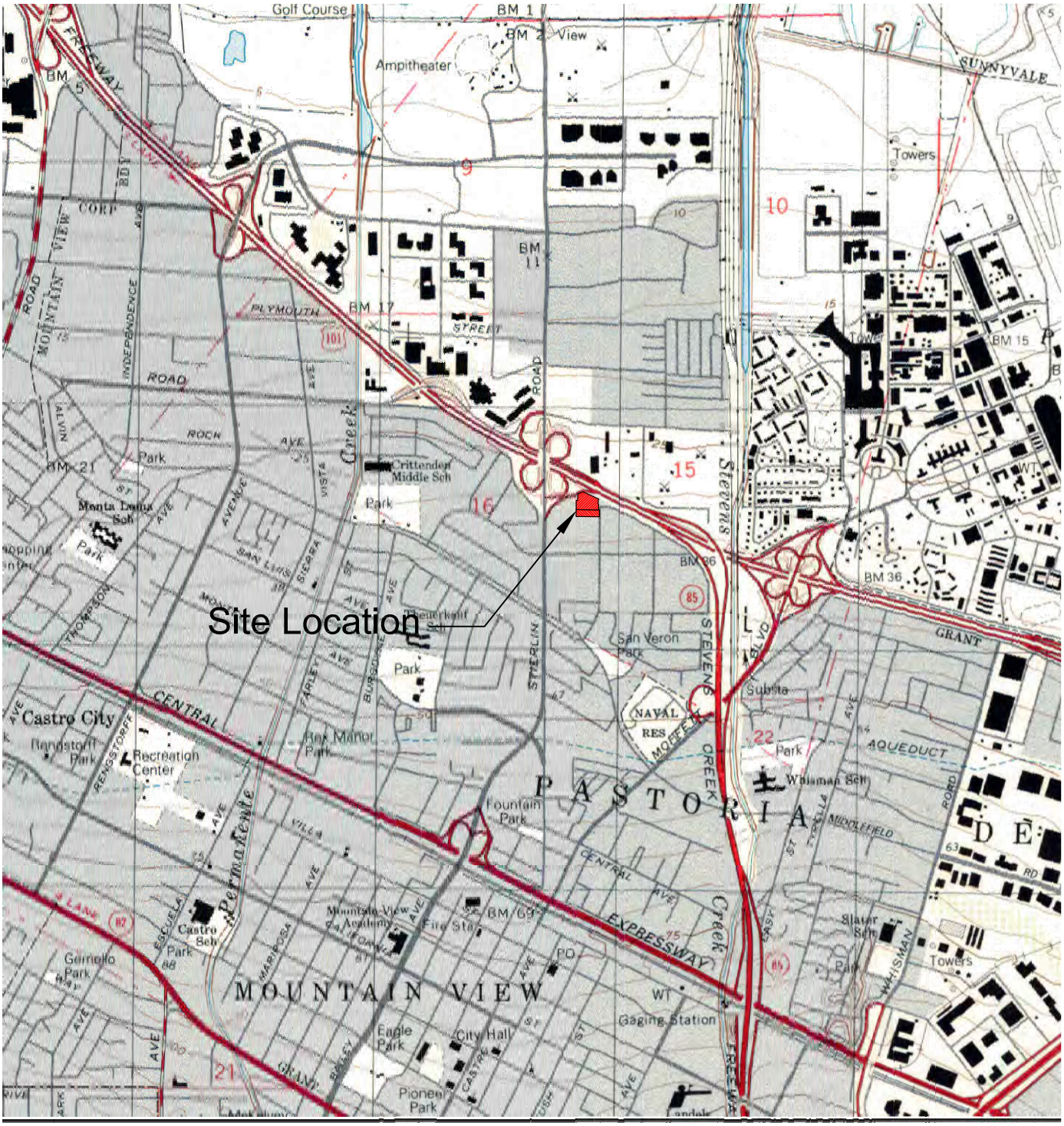


James G. Ritchie, PG, QSD
Project Director
SCS ENGINEERS

cc: Ms. Kay Hamilton, Church of Scientology
Mr. Jeffrey Smith, Hill International

Attachments:

Figure 1 – Site Location Map
Figure 2 – Site Plan, Grab Groundwater Sample Locations
Figure 3 – Historic Soil, Soil Vapor and Sub-Slab Vapor and Indoor Air Sample Locations
Table 1 – Summary of Grab Groundwater Sample Analytical Results
Table 2 - Summary of Indoor Air and Ambient Air Sample Analytical Results
Table 3 – Summary of Soil Vapor Analytical Results
Table 4 – Summary of Sub-Slab Vapor Analytical Results
Table 5 – Summary of Shallow Soil Analytical Results
Attachment A – McCampbell Analytical Inc., Analytical Report #1606116, dated June 9, 2016
McCampbell Analytical Inc., Analytical Report #1606117, dated June 8, 2016



SOURCE OF BASE MAP: EDR HISTORICAL TOPOGRAPHIC MAP 1997

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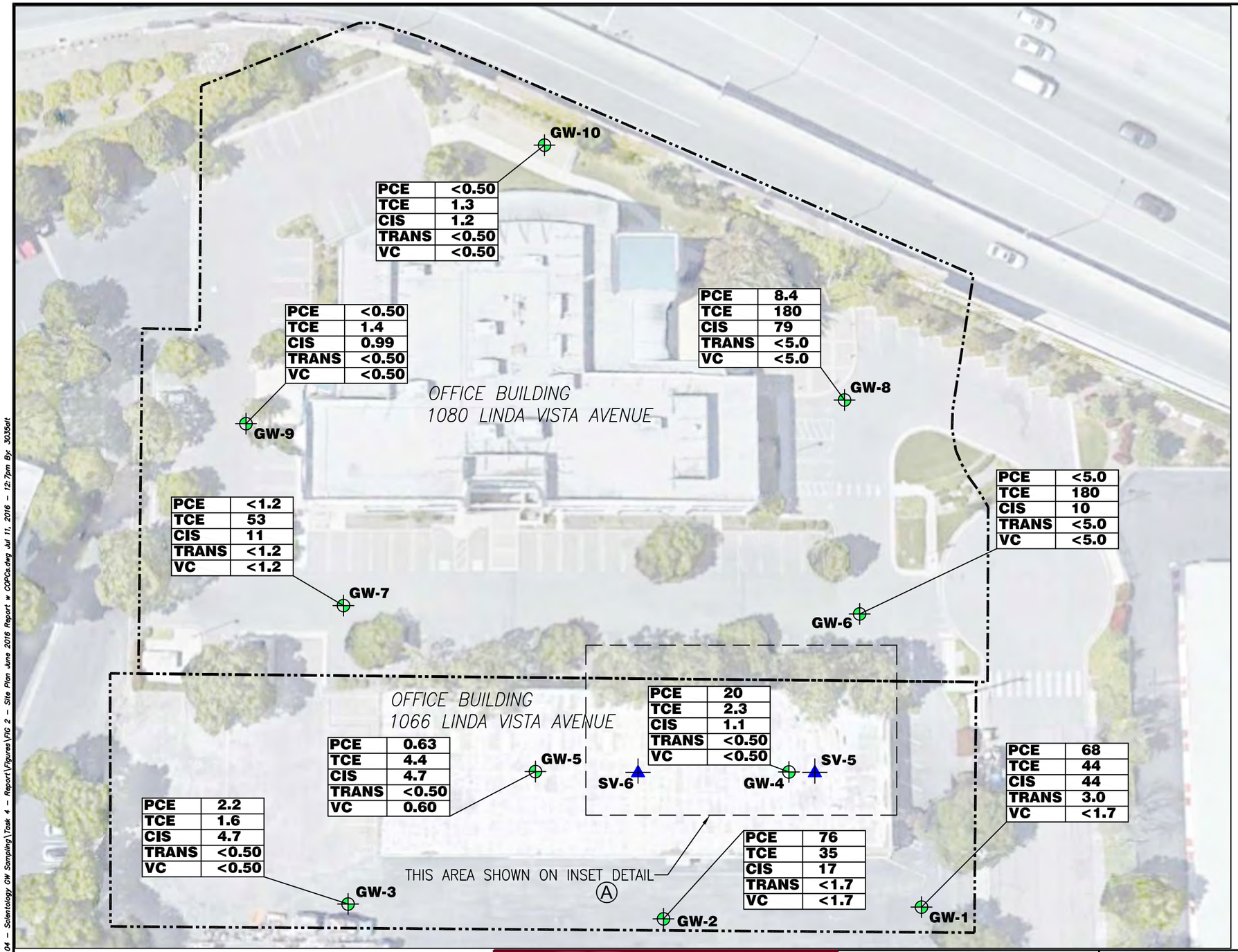
PROJ. NO.: XXXXXXXX.XX	DWN. BY: ATV	ACAD FILE: FIGURE 1
DATE: 7/09/15	CHK. BY: PAH	APP. BY: JGR

SHEET TITLE: SITE LOCATION MAP

SCALE: N.T.S

PROJECT TITLE: 1066 & 1080 LINDA VISTA AVENUE
MOUNTAIN VIEW, CALIFORNIA
APN: 153-015-025 &153-015-031

FIGURE NO.: 1



N

SCALE IN FEET

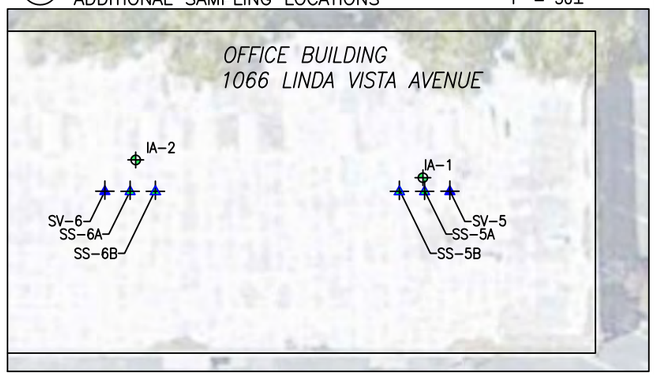
40 0 40

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- SV-6 — SOIL VAPOR SAMPLE LOCATION
- SS-6B — SUB-SLAB SAMPLE LOCATION
- GW-10 — PROPOSED GRAB GROUNDWATER SAMPLE LOCATION

PCE	TETRACHLOROETHENE
TCE	TRICHLOROETHENE
CIS	CIS-1,2-DICHLOROETHENE
TRANS	TRANS-1,2-DICHLOROETHENE
VC	VINYL CHLORIDE

Ⓐ DETAIL
ADDITIONAL SAMPLING LOCATIONS 1" = 30±'



SOURCE OF BASE MAP: GOOGLE EARTH PRO. AERIAL PHOTOGRAPH 7-09-15
ALL LOCATIONS ARE APPROXIMATE; NOT A PRODUCT OF SURVEY.

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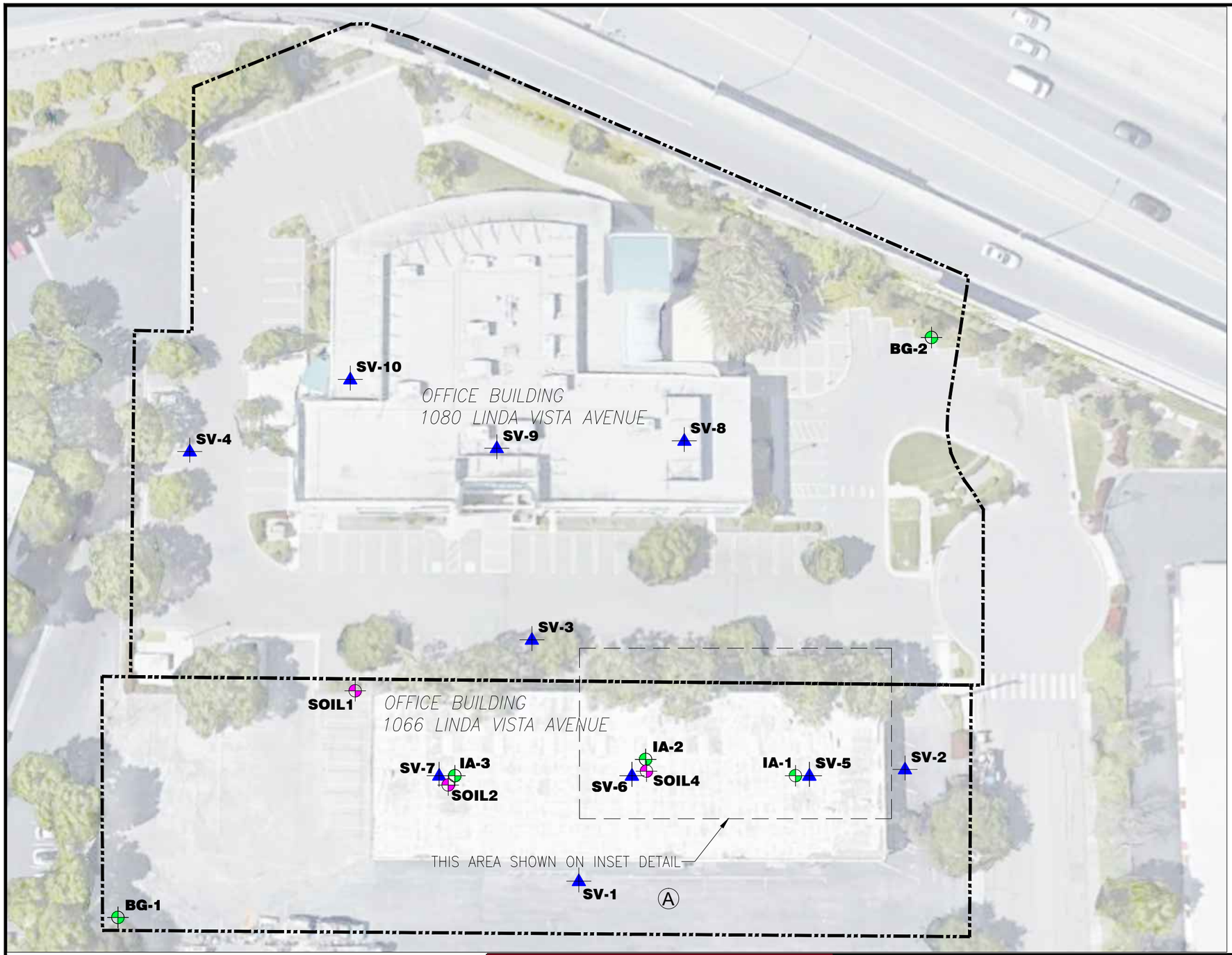
PROJ. NO. 01215172.04	DWN. BY: ALT	ACAD FILE: _____
DSN. BY: ATV	CHK. BY: JGR	APP. BY: JGR

SHEET TITLE: SITE PLAN
GRAB GROUNDWATER SAMPLE LOCATIONS

PROJECT TITLE:
1066 & 1080 LINDA VISTA AVENUE
MOUNTAIN VIEW, CALIFORNIA
APN: 153-015-025 &153-015-031

DATE: 07/11/16
SCALE: AS SHOWN
FIGURE NO.: 2

K:\ES\PROJECTS\2015\01215172.04 - Scientology GW Sampling\Task 4 - Report\Figures\FIG 2 - Site Plan June 2016 Report w COPCs.dwg Jul 11, 2016 - 12:7pm By: 3035alt



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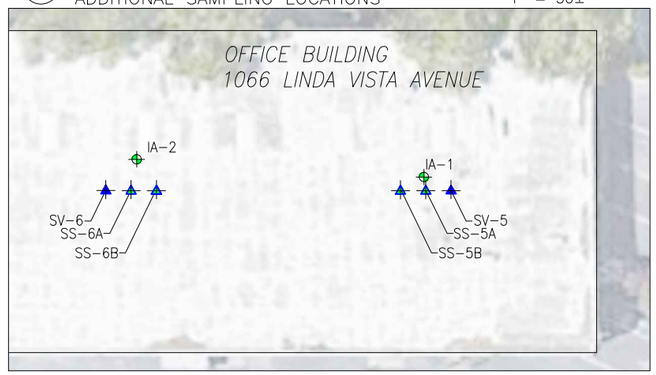
APPROXIMATE SCALE IN FEET

40 0 40

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- **SV-6** SOIL VAPOR SAMPLE LOCATION
- **SS-6B** SUB-SLAB SAMPLE LOCATION
- **IA-3** INDOOR AIR SAMPLE LOCATION (BACKGROUND AIR SAMPLE LOCATIONS SHOWN AS BG-)
- **SOIL4** SOIL SAMPLE LOCATION

(A) DETAIL
ADDITIONAL SAMPLING LOCATIONS 1" = 30±'



SOURCE OF BASE MAP: GOOGLE EARTH PRO. AERIAL PHOTOGRAPH 7-09-15
ALL LOCATIONS ARE APPROXIMATE; NOT A PRODUCT OF SURVEY.

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PROJ. NO.	DWN. BY:	ACAD FILE:
01215172.03	ALT	FIGURE 3
DSN. BY:	**CHK. BY:**	**APP. BY:**
ATV	JGR	JGR

SHEET TITLE:
SITE PLAN SHOWING SOIL, SOIL VAPOR, & INDOOR AIR SAMPLE LOCATIONS

PROJECT TITLE:
1066 & 1080 LINDA VISTA AVENUE
MOUNTAIN VIEW, CALIFORNIA
APNs: 153-015-025 & 153-015-031

DATE: 07/22/16

SCALE: AS SHOWN

FIGURE NO.: 3

Table 1. Summary of Grab Groundwater Sample Analytical Results
Petroleum Hydrocarbons and VOCs
Church of Scientology
1066 and 1080 Linda Vista Avenue, Mountain View, California

Sample Location	Sample Date	TPH-g	VOCs												
			Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	TBA	PCE	TCE	1,1-DCA	cis-1,2-DCE	trans-1,2-DCE	Freon 113	Vinyl Chloride
		µg/L													
GW-1	05/31/16	190	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	**68**	44	<1.7	44	3.0	<1.7	<1.7
GW-2	05/31/16	150	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	**76**	35	<1.7	17	<1.7	<1.7	<1.7
GW-3	05/31/16	<50	<0.50	<0.50	<0.50	<0.50	1.3	<2.0	2.2	1.6	0.68	4.7	<0.50	<0.50	<0.50
GW-4	05/31/16	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.1	20	2.3	<0.50	1.1	<0.50	<0.50	<0.50
GW-5	05/31/16	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	0.63	4.4	0.85	4.7	<0.50	7.7	**0.60**
GW-6	05/31/16	200	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<5.0	**180**	<5.0	10	<5.0	<5.0	<5.0
GW-7	05/31/16	90	<1.2	<1.2	<1.2	<1.2	2.1	<5.0	<1.2	**53**	1.7	11	<1.2	<1.2	<1.2
GW-8	06/01/16	250	<5.0	<5.0	<5.0	<5.0	<5.0	<20	8.4	**180**	<5.0	79	<5.0	<5.0	<5.0
GW-9	06/01/16	<50	<0.50	<0.50	<0.50	<0.50	0.58	<2.0	<0.50	1.4	<0.50	0.99	<0.50	<0.50	<0.50
GW-10	06/01/16	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	1.3	0.63	1.2	<0.50	<0.50	<0.50
Commercial/Industrial ESL		NE	9.7	30,000	110	11,000	11,000	NE	26	49	180	950	11,000	NE	0.53

Notes:

µg/L = micrograms per liter

Commercial/Industrial ESL = Summary of Groundwater ESLs (µg/L) - Groundwater Vapor Intrusion Human Health Risk Levels (Table GW-3) - Shallow Groundwater San Francisco Bay Regional Water Quality Control Board, February 2016 (Rev. 3)

Bold = Exceeds Commercial/Industrial ESL

NE = ESL Value Not Established.

TPH-g = total petroleum hydrocarbons as gasoline; analyzed using EPA Method 8260B

VOCs = volatile organic compounds; analyzed using EPA Method 8260B.

MTBE = methyl tert-butyl ether

TBA = tert-butyl alcohol

PCE = tetrachloroethene

TCE = trichloroethene

1,1-DCA = 1,1-dichloroethane

cis-1,2-DCE = cis-1,2-dichloroethene

trans-1,2-DCE = trans-1,2-dichloroethene

Table 2. Summary of Indoor Air and Ambient Air Sample Analytical Results
Petroleum Hydrocarbons and VOCs
Church of Scientology
1066 Linda Vista Avenue, Mountain View, California

Sample Location	Date		VOCs														Atmospheric Gas		
		TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	Carbon Tetrachloride	Chloroform	Chloromethane	Acetone	Methylene Chloride	Styrene	1,2-Dichloroethane (1,2-DCA)	1,1,1-Trichloroethane (TCA)	Tetrachloroethylene (PCE)	Trichloroethylene (TCE)	Methane	Oxygen	Carbon Dioxide
		µg/m^3															Percentage (%)		
IA-1	08/19/15	ND<65	**0.61**	2.0	0.35	1.16	**0.58**	0.16	1.0	20	10	ND<0.68	0.21	0.28	1.2	0.6	0.00020	20	0.045
IA-1	01/15/16	ND<64	**0.77**	1.8	0.37	1.70	**0.40**	0.16	1.0	14	13	ND<0.67	ND<0.13	ND<0.17	0.52	0.22	NA	NA	NA
IA-2	08/19/15	640	**8.6**	53	**8.1**	40	**0.57**	0.34	1.4	35	11	4.6	**4.0**	ND<0.38	0.75	ND<0.37	0.00020	21	0.045
IA-2	01/15/16	120	**0.77**	3.1	0.70	3.13	**0.38**	ND<0.15	1.1	14	9.4	ND<0.64	0.16	ND<0.16	0.58	ND<0.16	NA	NA	NA
IA-3	08/19/15	ND<54	**0.72**	3.4	0.56	2.6	**0.55**	1.8	1.2	16	7.8	ND<0.57	0.18	ND<0.14	0.26	ND<0.14	0.00020	21	0.044
IA-3	01/15/16	70	**0.78**	2.2	0.49	2.2	**0.39**	ND<0.15	1.1	14	7.1	ND<0.67	0.13	ND<0.17	0.38	ND<0.17	NA	NA	NA
BG-1	08/19/15	ND<64	0.40	0.87	0.17	0.77	**0.56**	ND<0.15	1.1	6.9	ND<1.1	ND<0.67	ND<0.13	ND<0.17	ND<0.21	ND<0.17	0.00020	21	0.039
BG-1	01/15/16	280	**1.1**	5.5	1.4	5.9	**0.36**	0.16	1.2	30	1.3	ND<0.66	0.22	ND<0.17	0.73	ND<0.17	NA	NA	NA
BG-2	08/19/15	ND<67	**0.44**	0.81	0.16	1.71	**0.54**	ND<0.16	1.0	7.1	1.3	ND<0.7	ND<0.13	ND<0.18	ND<0.22	ND<0.18	0.00017	21	0.040
BG-2	01/15/16	ND<68	**0.94**	2.4	0.52	2.22	**0.39**	ND<0.16	0.93	6.6	ND<1.2	ND<0.71	ND<0.13	ND<0.18	ND<0.22	ND<0.18	NA	NA	NA
Commercial/Industrial ESL		2,500	0.42	1,300	4.9	440	0.29	2.3	390	140,000	26	3,900	0.58	22,000	2.1	3.0	NE	NE	NE

Notes:

VOCs = volatile organic compounds; analyzed using Method TO-15.

NE = ESL Not Established

NA = Not Analyzed

ND = Not Detected

µg/m^3 = micrograms per cubic meter

µL/L = microliters per liter (also referred to as ppm)

ppm = parts per million

Commercial/Industrial ESL = Table E-3. Ambient and Indoor Air Screening Levels (Commercial/Industrial Exposure). - San Francisco Bay Regional Water Quality Control Board, December 2013

Bold = Exceeds Commercial/Industrial ESL

J = Estimated Value

Note - Other detected VOCs included Freon 11, Freon 12, Freon 113, Ethanol, 2-Propanol, Hexane, Heptane, 1,2,4-Trimethylbenzene, Cyclohexane, 4-Ethyltoluene, 2,2,4-Trimethylpentane, with no associated ESL values. Please see laboratory analytical report for full results.

1,4-Dichlorobenzene was detected in sample BG-2 at a concentration of 0.24 µg/m^3 on 1/15/16. Although this sample was collected from a background location, it should be noted that the result is below the ESL value of 1.1 µg/m3.

Indoor air concentration does not exceed ESL when subtracted from background ambient air concentration.

Table 3. Summary of Soil Vapor Sample Analytical Results
Petroleum Hydrocarbons and VOCs
Church of Scientology
1066 and 1080 Linda Vista Avenue, Mountain View, California

Sample Location	Depth (ft bgs)	Purge Volumes	Sample Date	TPH-g	VOCs																	Atmospheric Gas		
					Benzene	Toluene	Ethyl-benzene	Xylenes (m, p)	Xylene (o)	PCE	TCE	1,1-DCA	1,1-DCE	cis-1,2 DCE	trans-1,2-DCE	1,1,1-TCA	Vinyl Chloride	Acetone	MEK	Chloroform	1,1-Difluoroethane (leak check)	Methane	Oxygen	Carbon Dioxide
					$\mu g/m^3$																ppbv	percent by volume		
SV-1	5	3	07/28/15	ND<450	ND<3.5	ND<4.1	ND<4.8	ND<4.8	ND<4.8	ND<7.5	ND<5.9	ND<4.4	ND<4.4	ND<4.4	ND<4.4	ND<6	ND<2.8	ND<26	ND<13	ND<5.4	ND	ND<0.00022	21	0.041
SV-2	5	3	07/28/15	1,300	8.5	51	5.4	20	6.4	110	88	ND<4.8	ND<4.7	24	28	ND<6.5	ND<3	51	20	14	ND	ND<0.00024	18	3
SV-3	5	3	07/28/15	6,100	29	150	15	59	18	39	200	5.8	ND<4.7	15	ND<4.7	ND<6.5	ND<3	86	24	ND<5.8	ND	0.0018	5.2	8.4
SV-4	5	3	07/28/15	2,400	8.5	78	ND<5.4	20	6.6	16	ND<6.6	ND<5	ND<4.9	ND<4.9	ND<4.9	ND<6.7	ND<3.2	57	ND<14	ND<6	ND	ND<0.00025	8.2	12
SV-5	5	3	07/28/15	ND<780	ND<6.1	7.1J	ND<8.3	9.2	ND<8.3	**2,500**	480	ND<7.7	ND<7.6	ND<7.6	ND<7.6	25	ND<4.9	ND<45	ND<22	ND<9.3	ND	ND<0.00023	14	5.2
SV-5	5	3	01/28/16	4,800	ND<3.6	12	5.8	17	9.0	220	110	ND<4.6	ND<4.5	ND<4.5	ND<4.5	ND<6.2	ND<2.9	ND<27	ND<14	14	71 NJ	ND<0.00023	18	2.1
SV-6	5	3	07/28/15	ND<1,100	ND<8.4	20	ND<11	14	ND<11	**2,300**	**4,300**	21	32	28	ND<10	340	ND<6.7	ND<63	ND<31	ND<13	ND	ND<0.00024	13	5.9
SV-6	5	3	01/28/16	ND<950	ND<7.4	ND<8.8	ND<10	ND<10	ND<10	**2,200**	2,700	26	190	84	9.6	400	ND<6	ND<55	ND<27	ND<11	ND	ND<0.00023	15	9.0
SV-7	5	3	07/28/15	1,700	31	230	23	81	25	350	220	ND<7.3	ND<7.1	8	ND<7.1	24	ND<4.6	72	ND<21	ND<8.8	ND	0.0004	9.5	4.9
SV-8	5	3	07/28/15	ND<480	ND<3.7	ND<4.4	ND<5	ND<5	ND<5	ND<7.9	ND<6.3	ND<4.7	ND<4.6	ND<4.6	ND<4.6	ND<6.4	ND<3	48	ND<14	ND<5.7	10 NJ	ND<0.00023	21	0.046
SV-9	5	3	07/28/15	ND<1,400	18	140	15	48	15	ND<23	94	ND<14	ND<13	ND<13	ND<13	47	ND<8.6	120	ND<40	ND<16	ND	0.02	1.8	15.0
SV-10	5	3	07/28/15	ND<420	ND<3.3	8.6	ND<4.4	ND<4.4	ND<4.4	160	36	ND<4.1	ND<4.1	ND<4.1	ND<4.1	ND<5.6	ND<2.6	37	ND<12	ND<5	310 NJ	0.0006	20	0.75
Commercial/Industrial ESL				2,500,000	420	1,300,000	4,900	440,000		2,100	3,000	7,700	880,000	31,000	260,000	22,000,000	160	140,000,000	22,000,000	2,300	NE	NE	NE	NE

Notes:

TPH-g = total petroleum hydrocarbons as gasoline; analyzed using EPA Method 8260B

VOCs = volatile organic compounds; analyzed using EPA Method 8260B.

$\mu g/m^3$ = micrograms per cubic meter

ppbv = parts per billion by volume

Commercial/Industrial ESL = Soil gas screening levels for evaluation of potential vapor intrusion at commercial/industrial sites. - San Francisco Bay Regional Water Quality Control Board, December 2013

Bold = Exceeds Commercial/Industrial ESL

NE = ESL Value Not Established.

NJ = Estimated Value, Based Upon Presumptive Evidence

Note - Styrene was detected at a concentration of 14 $\mu g/m^3$ in sample SV-5 collected on January 28, 2016. This is below the ESL value of 3,900,000 $\mu g/m^3$.

Note - Other detected VOCs included Freon 11, Freon 12, Freon 113, Ethanol, 2-Propanol, Hexane, Heptane, 1,2,4- and 1,3,5-Trimethylbenzene, Cyclohexane, 4-Ethyltoluene, 2,2,4-Trimethylpentane, Cumene, Tetrahydrofuran, Carbon Disulfide, 1,3-Butadiene with no associated ESL values.

Table 4. Summary of Sub-Slab Vapor Sample Analytical Results
Petroleum Hydrocarbons and VOCs
Church of Scientology
1066 Linda Vista Avenue, Mountain View, California

Sample Location	Depth (ft bgs)	Purge Volumes	Sample Date	TPH-g	VOCs																	Atmospheric Gas		
					Benzene	Toluene	Ethyl-benzene	Xylenes (m, p)	Xylene (o)	PCE	TCE	1,1-DCA	1,1-DCE	cis-1,2 DCE	trans-1,2-DCE	1,1,1-TCA	Vinyl Chloride	Acetone	MEK	Chloroform	Leak Check	Methane	Oxygen	Carbon Dioxide
				µg/m^3																	ppbv - DFE percent - He	percent by volume		
SS-5A	0.5	3	01/28/16	ND<960	51	17	ND<10	ND<10	ND<10	1,300	230	ND<9.4	ND<9.2	ND<9.2	ND<9.2	ND<13	ND<6	56	ND<28	ND<11	3,200 NJ, DFE	ND<0.00023	18	3.2
SS-5A	0.5	3	03/30/16	1,200	4.3	4.2	4.2	9.9		**2,200**	260	ND<2.0	8.2	ND<2.0	ND<2.0	16	ND<1.3	180	ND<75	ND<2.4	0.074 He	ND<0.002	10	1
SS-5B	0.5	3	01/28/16	ND<640	18	6.4	ND<6.8	ND<6.8	ND<6.8	1,700	120	ND<6.4	ND<6.2	ND6.2	ND<6.2	13	ND<4	ND<37	ND<18	ND<7.7	800 NJ, DFE	ND<0.00024	17	5.4
SS-5B	0.5	3	03/30/16	1,200	2.7	2.8	2.4	ND<6.6		**2,900**	140	ND<2.0	7.0	ND<2.0	ND<2.0	17	ND<1.3	110	ND<75	ND<2.4	1.9 He	ND<0.002	11	1.6
SS-6A	0.5	3	01/28/16	ND<1,800	ND<35	ND<41	ND<48	ND<48	ND<48	1,000	420	ND<44	68	ND<44	ND<44	160	ND<28	ND<100	ND<130	ND<54	750,000 NJ, DFE	0.00037	18	3.1
SS-6A	0.5	3	03/30/16	7,100	**500**	43	44	35		710	300	ND<2.0	14	ND<2.0	ND<2.0	150	ND<1.3	250	170	ND<2.4	3.8 He	ND<0.002	10	1.5
SS-6B	0.5	3	01/28/16	ND<1,800	ND<36	ND<43	ND<49	ND<49	ND<49	120	ND<61	ND<46	ND<45	ND<45	ND<45	ND<62	ND<29	240	ND<130	ND<55	590,000 NJ, DFE	0.00027	21	0.85
SS-6B	0.5	3	03/30/16	11,000	65	24	21	30		1,300	330	ND<2.0	ND<2.0	ND<2.0	ND<2.0	210	ND<1.3	350	110	ND<2.4	0.22 He	ND<0.002	10	3.5
Commercial/Industrial ESL				250,000	420	1,300,000	4,900	440,000		2,100	3,000	7,700	880,000	31,000	260,000	22,000,000	160	140,000,000	22,000,000	2,300	NE - DFE 5.0 - He	NE	NE	NE

Notes:

TPH-g = total petroleum hydrocarbons as gasoline; analyzed using EPA Method 8260B

VOCs = volatile organic compounds; analyzed using EPA Method 8260B.

µg/m^3 = micrograms per cubic meter

ppbv = parts per billion by volume

Commercial/Industrial ESL = Soil gas screening levels for evaluation of potential vapor intrusion at commercial/industrial sites. - San Francisco Bay Regional Water Quality Control Board, December 2013

Bold = Exceeds Commercial/Industrial ESL

NE = ESL Value Not Established.

NJ = Estimated Value, Based Upon Presumptive Evidence

Leak Check Compound - DFE = 1,1 - Difluoroethane, He = Helium

Note - Other detected VOCs included Freon 113, Ethanol, 2-Propanol, Cyclohexane, Cumene, Naphthalene, 1,4-Dioxane, Methylene Chloride, MTBE, 1,1,2-TCA, 1,2,4- and 1,3,5-TMB, Bromomethane, dichlorodifluoromethane, ethylacetate, 4-ethyltoluene, 2 hexanone, MIBK, styrene, methyl methacrylate, tetrahydrofuran, trichlorotrifluoromethane, acrolein, carbon disulfide, t-butyl alcohol (TBA), 1,2-dibromo-3-chloropropane, 1,3-butadiene, 1,2-dichloroethane (1,2-DCA), all of which either had no associated ESL values or which were reported below corresponding ESL values for commercial land use.

Table 5. Summary of Shallow Soil Sample Analytical Results
Church of Scientology
1066 and 1080 Linda Vista Avenue, Mountain View, California

Sample Location	Depth (ft bgs)	Sample Date	PCE	TCE	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			mg/kg																			
Soil 1@2	2'	7/28/15	NA	NA	<0.50	0.93	35	<0.50	<0.25	100	<4.0	30	70	15	<0.050	<0.50	77	<0.50	<0.50	<0.50	160	93
Soil 1@5	5'		NA	NA	<0.50	**3.3***	290	0.54	<0.25	51	<4.0	12	32	10	0.061	<0.5	57	0.83	<0.50	<0.50	45	57
Soil 2@2**	2'	8/18/15	<0.005	<0.005	<0.50	**4.3***	300	0.64	<0.25	63	NA	13	35	10	0.071	<0.50	73	0.90	<0.50	<0.50	55	69
Soil 4@2**	2'	8/18/15	0.012	0.006	2.7	**5.0***	180	<0.50	<0.25	300	NA	20	**3,200**	**1,800**	2.0	5.1	**3,200**	<0.50	11	<0.50	75	98
TTLC			NA	2,040	500	500	10,000	75	100	2,500[a]	500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
Commercial/Industrial ESL (Drinking Water)			0.42	0.46	40	1.6	1,500	8.0	12	750[a]	8	80	230	320	10	40	150	10	40	10	200	600
Commercial/Industrial ESL (non-Drinking Water)			0.42	0.51	40	1.6	1,500	8.0	12	750[a]	8	80	230	320	10	40	150	10	40	10	200	600

Notes:

Metals analyzed using either EPA Methods 6010B, 6020, or 7471A

mg/kg = milligrams per kilogram (or parts per million; ppm)

TTLC = Total Threshold Limit Concentration (CCR Title 22, Section 66261.24)

Commercial/Industrial ESL (Drinking Water) = Environmental Screening Level for commercial shallow soil (less than or equal to 3 meters below ground surface) where groundwater is a current or potential source of drinking water - San Francisco Bay Regional Water Quality Control Board, December 2013

Commercial/Industrial ESL (non-Drinking Water) = Environmental Screening Level for commercial shallow soil (less than or equal to 3 meters below ground surface) where groundwater is not a current or potential source of drinking water - San Francisco Bay Regional Water Quality Control Board, December 2013

ft bgs = feet below ground surface

a = value for Trivalent Chromium

Bold = Exceeds Commercial/Industrial ESL (Current of Future Drinking Water)

* =Arsenic concentrations detected at the Site are generally within background ranges reported for California soils (11/mg/kg). Regulatory agencies generally do not require remediation/mitigation of metals to below background concentrations.

** = Sample 4@2 only yielded PCE and TCE. Neither 2@2 nor 4@2 yielded any other VOC or TPHg by EPA Method 8260B.

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1606116

Report Created for: SCS Engineers

7041 Koll Center Parkway, Suite 135
Pleasanton, CA 94566

Project Contact: Alex Tuveson
Project P.O.:
Project Name: 01215172.04; Scientology

Project Received: 06/02/2016

Analytical Report reviewed & approved for release on 06/09/2016 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.

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Glossary of Terms & Qualifier Definitions

Client: SCS Engineers
Project: 01215172.04; Scientology
WorkOrder: 1606116

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

c8	sample pH is greater than 2

McCampbell Analytical, Inc.
"When Quality Counts"

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1606116
Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/7/16-6/8/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-1	1606116-001A	Water	05/31/2016	GC18	121942

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	33	3.3	06/08/2016 01:52
tert-Amyl methyl ether (TAME)	ND	1.7	3.3	06/08/2016 01:52
Benzene	ND	1.7	3.3	06/08/2016 01:52
Bromobenzene	ND	1.7	3.3	06/08/2016 01:52
Bromochloromethane	ND	1.7	3.3	06/08/2016 01:52
Bromodichloromethane	ND	1.7	3.3	06/08/2016 01:52
Bromoform	ND	1.7	3.3	06/08/2016 01:52
Bromomethane	ND	1.7	3.3	06/08/2016 01:52
2-Butanone (MEK)	ND	6.7	3.3	06/08/2016 01:52
t-Butyl alcohol (TBA)	ND	6.7	3.3	06/08/2016 01:52
n-Butyl benzene	ND	1.7	3.3	06/08/2016 01:52
sec-Butyl benzene	ND	1.7	3.3	06/08/2016 01:52
tert-Butyl benzene	ND	1.7	3.3	06/08/2016 01:52
Carbon Disulfide	ND	1.7	3.3	06/08/2016 01:52
Carbon Tetrachloride	ND	1.7	3.3	06/08/2016 01:52
Chlorobenzene	ND	1.7	3.3	06/08/2016 01:52
Chloroethane	ND	1.7	3.3	06/08/2016 01:52
Chloroform	ND	1.7	3.3	06/08/2016 01:52
Chloromethane	ND	1.7	3.3	06/08/2016 01:52
2-Chlorotoluene	ND	1.7	3.3	06/08/2016 01:52
4-Chlorotoluene	ND	1.7	3.3	06/08/2016 01:52
Dibromochloromethane	ND	1.7	3.3	06/08/2016 01:52
1,2-Dibromo-3-chloropropane	ND	0.67	3.3	06/08/2016 01:52
1,2-Dibromoethane (EDB)	ND	1.7	3.3	06/08/2016 01:52
Dibromomethane	ND	1.7	3.3	06/08/2016 01:52
1,2-Dichlorobenzene	ND	1.7	3.3	06/08/2016 01:52
1,3-Dichlorobenzene	ND	1.7	3.3	06/08/2016 01:52
1,4-Dichlorobenzene	ND	1.7	3.3	06/08/2016 01:52
Dichlorodifluoromethane	ND	1.7	3.3	06/08/2016 01:52
1,1-Dichloroethane	ND	1.7	3.3	06/08/2016 01:52
1,2-Dichloroethane (1,2-DCA)	ND	1.7	3.3	06/08/2016 01:52
1,1-Dichloroethene	ND	1.7	3.3	06/08/2016 01:52
cis-1,2-Dichloroethene	**44**	1.7	3.3	06/08/2016 01:52
trans-1,2-Dichloroethene	**3.0**	1.7	3.3	06/08/2016 01:52
1,2-Dichloropropane	ND	1.7	3.3	06/08/2016 01:52
1,3-Dichloropropane	ND	1.7	3.3	06/08/2016 01:52
2,2-Dichloropropane	ND	1.7	3.3	06/08/2016 01:52

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1606116
Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/7/16-6/8/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-1	1606116-001A	Water	05/31/2016	GC18	121942

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	1.7	3.3	06/08/2016 01:52
cis-1,3-Dichloropropene	ND	1.7	3.3	06/08/2016 01:52
trans-1,3-Dichloropropene	ND	1.7	3.3	06/08/2016 01:52
Diisopropyl ether (DIPE)	ND	1.7	3.3	06/08/2016 01:52
Ethylbenzene	ND	1.7	3.3	06/08/2016 01:52
Ethyl tert-butyl ether (ETBE)	ND	1.7	3.3	06/08/2016 01:52
Freon 113	ND	1.7	3.3	06/08/2016 01:52
Hexachlorobutadiene	ND	1.7	3.3	06/08/2016 01:52
Hexachloroethane	ND	1.7	3.3	06/08/2016 01:52
2-Hexanone	ND	1.7	3.3	06/08/2016 01:52
Isopropylbenzene	ND	1.7	3.3	06/08/2016 01:52
4-Isopropyl toluene	ND	1.7	3.3	06/08/2016 01:52
Methyl-t-butyl ether (MTBE)	ND	1.7	3.3	06/08/2016 01:52
Methylene chloride	ND	1.7	3.3	06/08/2016 01:52
4-Methyl-2-pentanone (MIBK)	ND	1.7	3.3	06/08/2016 01:52
Naphthalene	ND	1.7	3.3	06/08/2016 01:52
n-Propyl benzene	ND	1.7	3.3	06/08/2016 01:52
Styrene	ND	1.7	3.3	06/08/2016 01:52
1,1,1,2-Tetrachloroethane	ND	1.7	3.3	06/08/2016 01:52
1,1,2,2-Tetrachloroethane	ND	1.7	3.3	06/08/2016 01:52
Tetrachloroethene	**68**	1.7	3.3	06/08/2016 01:52
Toluene	ND	1.7	3.3	06/08/2016 01:52
1,2,3-Trichlorobenzene	ND	1.7	3.3	06/08/2016 01:52
1,2,4-Trichlorobenzene	ND	1.7	3.3	06/08/2016 01:52
1,1,1-Trichloroethane	ND	1.7	3.3	06/08/2016 01:52
1,1,2-Trichloroethane	ND	1.7	3.3	06/08/2016 01:52
Trichloroethene	**44**	1.7	3.3	06/08/2016 01:52
Trichlorofluoromethane	ND	1.7	3.3	06/08/2016 01:52
1,2,3-Trichloropropane	ND	1.7	3.3	06/08/2016 01:52
1,2,4-Trimethylbenzene	ND	1.7	3.3	06/08/2016 01:52
1,3,5-Trimethylbenzene	ND	1.7	3.3	06/08/2016 01:52
Vinyl Chloride	ND	1.7	3.3	06/08/2016 01:52
Xylenes, Total	ND	1.7	3.3	06/08/2016 01:52

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1606116
Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/7/16-6/8/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-1	**1606116-001A**	**Water**	**05/31/2016**	**GC18**	**121942**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	101	70-130		06/08/2016 01:52
Toluene-d8	97	70-130		06/08/2016 01:52
4-BFB	87	70-130		06/08/2016 01:52

Analyst(s): MW Analytical Comments: c8

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1606116
Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/7/16-6/8/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-2	1606116-002A	Water	05/31/2016	GC18	121942

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	33	3.3	06/08/2016 02:31
tert-Amyl methyl ether (TAME)	ND	1.7	3.3	06/08/2016 02:31
Benzene	ND	1.7	3.3	06/08/2016 02:31
Bromobenzene	ND	1.7	3.3	06/08/2016 02:31
Bromochloromethane	ND	1.7	3.3	06/08/2016 02:31
Bromodichloromethane	ND	1.7	3.3	06/08/2016 02:31
Bromoform	ND	1.7	3.3	06/08/2016 02:31
Bromomethane	ND	1.7	3.3	06/08/2016 02:31
2-Butanone (MEK)	ND	6.7	3.3	06/08/2016 02:31
t-Butyl alcohol (TBA)	ND	6.7	3.3	06/08/2016 02:31
n-Butyl benzene	ND	1.7	3.3	06/08/2016 02:31
sec-Butyl benzene	ND	1.7	3.3	06/08/2016 02:31
tert-Butyl benzene	ND	1.7	3.3	06/08/2016 02:31
Carbon Disulfide	ND	1.7	3.3	06/08/2016 02:31
Carbon Tetrachloride	ND	1.7	3.3	06/08/2016 02:31
Chlorobenzene	ND	1.7	3.3	06/08/2016 02:31
Chloroethane	ND	1.7	3.3	06/08/2016 02:31
Chloroform	ND	1.7	3.3	06/08/2016 02:31
Chloromethane	ND	1.7	3.3	06/08/2016 02:31
2-Chlorotoluene	ND	1.7	3.3	06/08/2016 02:31
4-Chlorotoluene	ND	1.7	3.3	06/08/2016 02:31
Dibromochloromethane	ND	1.7	3.3	06/08/2016 02:31
1,2-Dibromo-3-chloropropane	ND	0.67	3.3	06/08/2016 02:31
1,2-Dibromoethane (EDB)	ND	1.7	3.3	06/08/2016 02:31
Dibromomethane	ND	1.7	3.3	06/08/2016 02:31
1,2-Dichlorobenzene	ND	1.7	3.3	06/08/2016 02:31
1,3-Dichlorobenzene	ND	1.7	3.3	06/08/2016 02:31
1,4-Dichlorobenzene	ND	1.7	3.3	06/08/2016 02:31
Dichlorodifluoromethane	ND	1.7	3.3	06/08/2016 02:31
1,1-Dichloroethane	ND	1.7	3.3	06/08/2016 02:31
1,2-Dichloroethane (1,2-DCA)	ND	1.7	3.3	06/08/2016 02:31
1,1-Dichloroethene	ND	1.7	3.3	06/08/2016 02:31
cis-1,2-Dichloroethene	**17**	1.7	3.3	06/08/2016 02:31
trans-1,2-Dichloroethene	ND	1.7	3.3	06/08/2016 02:31
1,2-Dichloropropane	ND	1.7	3.3	06/08/2016 02:31
1,3-Dichloropropane	ND	1.7	3.3	06/08/2016 02:31
2,2-Dichloropropane	ND	1.7	3.3	06/08/2016 02:31

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1606116
Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/7/16-6/8/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-2	1606116-002A	Water	05/31/2016	GC18	121942

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	1.7	3.3	06/08/2016 02:31
cis-1,3-Dichloropropene	ND	1.7	3.3	06/08/2016 02:31
trans-1,3-Dichloropropene	ND	1.7	3.3	06/08/2016 02:31
Diisopropyl ether (DIPE)	ND	1.7	3.3	06/08/2016 02:31
Ethylbenzene	ND	1.7	3.3	06/08/2016 02:31
Ethyl tert-butyl ether (ETBE)	ND	1.7	3.3	06/08/2016 02:31
Freon 113	ND	1.7	3.3	06/08/2016 02:31
Hexachlorobutadiene	ND	1.7	3.3	06/08/2016 02:31
Hexachloroethane	ND	1.7	3.3	06/08/2016 02:31
2-Hexanone	ND	1.7	3.3	06/08/2016 02:31
Isopropylbenzene	ND	1.7	3.3	06/08/2016 02:31
4-Isopropyl toluene	ND	1.7	3.3	06/08/2016 02:31
Methyl-t-butyl ether (MTBE)	ND	1.7	3.3	06/08/2016 02:31
Methylene chloride	ND	1.7	3.3	06/08/2016 02:31
4-Methyl-2-pentanone (MIBK)	ND	1.7	3.3	06/08/2016 02:31
Naphthalene	ND	1.7	3.3	06/08/2016 02:31
n-Propyl benzene	ND	1.7	3.3	06/08/2016 02:31
Styrene	ND	1.7	3.3	06/08/2016 02:31
1,1,1,2-Tetrachloroethane	ND	1.7	3.3	06/08/2016 02:31
1,1,2,2-Tetrachloroethane	ND	1.7	3.3	06/08/2016 02:31
Tetrachloroethene	**76**	1.7	3.3	06/08/2016 02:31
Toluene	ND	1.7	3.3	06/08/2016 02:31
1,2,3-Trichlorobenzene	ND	1.7	3.3	06/08/2016 02:31
1,2,4-Trichlorobenzene	ND	1.7	3.3	06/08/2016 02:31
1,1,1-Trichloroethane	ND	1.7	3.3	06/08/2016 02:31
1,1,2-Trichloroethane	ND	1.7	3.3	06/08/2016 02:31
Trichloroethene	**35**	1.7	3.3	06/08/2016 02:31
Trichlorofluoromethane	ND	1.7	3.3	06/08/2016 02:31
1,2,3-Trichloropropane	ND	1.7	3.3	06/08/2016 02:31
1,2,4-Trimethylbenzene	ND	1.7	3.3	06/08/2016 02:31
1,3,5-Trimethylbenzene	ND	1.7	3.3	06/08/2016 02:31
Vinyl Chloride	ND	1.7	3.3	06/08/2016 02:31
Xylenes, Total	ND	1.7	3.3	06/08/2016 02:31

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1606116
Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/7/16-6/8/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-2	**1606116-002A**	**Water**	**05/31/2016**	**GC18**	**121942**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	101	70-130		06/08/2016 02:31
Toluene-d8	96	70-130		06/08/2016 02:31
4-BFB	86	70-130		06/08/2016 02:31

Analyst(s): MW

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1606116
Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/7/16-6/8/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-3	1606116-003A	Water	05/31/2016	GC18	121942

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	06/08/2016 03:09
tert-Amyl methyl ether (TAME)	ND	0.50	1	06/08/2016 03:09
Benzene	ND	0.50	1	06/08/2016 03:09
Bromobenzene	ND	0.50	1	06/08/2016 03:09
Bromochloromethane	ND	0.50	1	06/08/2016 03:09
Bromodichloromethane	ND	0.50	1	06/08/2016 03:09
Bromoform	ND	0.50	1	06/08/2016 03:09
Bromomethane	ND	0.50	1	06/08/2016 03:09
2-Butanone (MEK)	ND	2.0	1	06/08/2016 03:09
t-Butyl alcohol (TBA)	ND	2.0	1	06/08/2016 03:09
n-Butyl benzene	ND	0.50	1	06/08/2016 03:09
sec-Butyl benzene	ND	0.50	1	06/08/2016 03:09
tert-Butyl benzene	ND	0.50	1	06/08/2016 03:09
Carbon Disulfide	ND	0.50	1	06/08/2016 03:09
Carbon Tetrachloride	ND	0.50	1	06/08/2016 03:09
Chlorobenzene	ND	0.50	1	06/08/2016 03:09
Chloroethane	ND	0.50	1	06/08/2016 03:09
Chloroform	ND	0.50	1	06/08/2016 03:09
Chloromethane	ND	0.50	1	06/08/2016 03:09
2-Chlorotoluene	ND	0.50	1	06/08/2016 03:09
4-Chlorotoluene	ND	0.50	1	06/08/2016 03:09
Dibromochloromethane	ND	0.50	1	06/08/2016 03:09
1,2-Dibromo-3-chloropropane	ND	0.20	1	06/08/2016 03:09
1,2-Dibromoethane (EDB)	ND	0.50	1	06/08/2016 03:09
Dibromomethane	ND	0.50	1	06/08/2016 03:09
1,2-Dichlorobenzene	ND	0.50	1	06/08/2016 03:09
1,3-Dichlorobenzene	ND	0.50	1	06/08/2016 03:09
1,4-Dichlorobenzene	ND	0.50	1	06/08/2016 03:09
Dichlorodifluoromethane	ND	0.50	1	06/08/2016 03:09
1,1-Dichloroethane	**0.68**	0.50	1	06/08/2016 03:09
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	06/08/2016 03:09
1,1-Dichloroethene	ND	0.50	1	06/08/2016 03:09
cis-1,2-Dichloroethene	**4.7**	0.50	1	06/08/2016 03:09
trans-1,2-Dichloroethene	ND	0.50	1	06/08/2016 03:09
1,2-Dichloropropane	ND	0.50	1	06/08/2016 03:09
1,3-Dichloropropane	ND	0.50	1	06/08/2016 03:09
2,2-Dichloropropane	ND	0.50	1	06/08/2016 03:09

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1606116
Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/7/16-6/8/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-3	1606116-003A	Water	05/31/2016	GC18	121942

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	06/08/2016 03:09
cis-1,3-Dichloropropene	ND	0.50	1	06/08/2016 03:09
trans-1,3-Dichloropropene	ND	0.50	1	06/08/2016 03:09
Diisopropyl ether (DIPE)	ND	0.50	1	06/08/2016 03:09
Ethylbenzene	ND	0.50	1	06/08/2016 03:09
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	06/08/2016 03:09
Freon 113	ND	0.50	1	06/08/2016 03:09
Hexachlorobutadiene	ND	0.50	1	06/08/2016 03:09
Hexachloroethane	ND	0.50	1	06/08/2016 03:09
2-Hexanone	ND	0.50	1	06/08/2016 03:09
Isopropylbenzene	ND	0.50	1	06/08/2016 03:09
4-Isopropyl toluene	ND	0.50	1	06/08/2016 03:09
Methyl-t-butyl ether (MTBE)	**1.3**	0.50	1	06/08/2016 03:09
Methylene chloride	ND	0.50	1	06/08/2016 03:09
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	06/08/2016 03:09
Naphthalene	ND	0.50	1	06/08/2016 03:09
n-Propyl benzene	ND	0.50	1	06/08/2016 03:09
Styrene	ND	0.50	1	06/08/2016 03:09
1,1,1,2-Tetrachloroethane	ND	0.50	1	06/08/2016 03:09
1,1,2,2-Tetrachloroethane	ND	0.50	1	06/08/2016 03:09
Tetrachloroethene	**2.2**	0.50	1	06/08/2016 03:09
Toluene	ND	0.50	1	06/08/2016 03:09
1,2,3-Trichlorobenzene	ND	0.50	1	06/08/2016 03:09
1,2,4-Trichlorobenzene	ND	0.50	1	06/08/2016 03:09
1,1,1-Trichloroethane	ND	0.50	1	06/08/2016 03:09
1,1,2-Trichloroethane	ND	0.50	1	06/08/2016 03:09
Trichloroethene	**1.6**	0.50	1	06/08/2016 03:09
Trichlorofluoromethane	ND	0.50	1	06/08/2016 03:09
1,2,3-Trichloropropane	ND	0.50	1	06/08/2016 03:09
1,2,4-Trimethylbenzene	ND	0.50	1	06/08/2016 03:09
1,3,5-Trimethylbenzene	ND	0.50	1	06/08/2016 03:09
Vinyl Chloride	ND	0.50	1	06/08/2016 03:09
Xylenes, Total	ND	0.50	1	06/08/2016 03:09

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1606116
Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/7/16-6/8/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-3	**1606116-003A**	**Water**	**05/31/2016**	**GC18**	**121942**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	101	70-130		06/08/2016 03:09
Toluene-d8	97	70-130		06/08/2016 03:09
4-BFB	86	70-130		06/08/2016 03:09

Analyst(s): MW

(Cont.)

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1606116
Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/7/16-6/8/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-4	1606116-004A	Water	05/31/2016	GC18	121942

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	06/07/2016 15:21
tert-Amyl methyl ether (TAME)	ND	0.50	1	06/07/2016 15:21
Benzene	ND	0.50	1	06/07/2016 15:21
Bromobenzene	ND	0.50	1	06/07/2016 15:21
Bromochloromethane	ND	0.50	1	06/07/2016 15:21
Bromodichloromethane	ND	0.50	1	06/07/2016 15:21
Bromoform	ND	0.50	1	06/07/2016 15:21
Bromomethane	ND	0.50	1	06/07/2016 15:21
2-Butanone (MEK)	ND	2.0	1	06/07/2016 15:21
t-Butyl alcohol (TBA)	**4.1**	2.0	1	06/07/2016 15:21
n-Butyl benzene	ND	0.50	1	06/07/2016 15:21
sec-Butyl benzene	ND	0.50	1	06/07/2016 15:21
tert-Butyl benzene	ND	0.50	1	06/07/2016 15:21
Carbon Disulfide	ND	0.50	1	06/07/2016 15:21
Carbon Tetrachloride	ND	0.50	1	06/07/2016 15:21
Chlorobenzene	ND	0.50	1	06/07/2016 15:21
Chloroethane	ND	0.50	1	06/07/2016 15:21
Chloroform	ND	0.50	1	06/07/2016 15:21
Chloromethane	ND	0.50	1	06/07/2016 15:21
2-Chlorotoluene	ND	0.50	1	06/07/2016 15:21
4-Chlorotoluene	ND	0.50	1	06/07/2016 15:21
Dibromochloromethane	ND	0.50	1	06/07/2016 15:21
1,2-Dibromo-3-chloropropane	ND	0.20	1	06/07/2016 15:21
1,2-Dibromoethane (EDB)	ND	0.50	1	06/07/2016 15:21
Dibromomethane	ND	0.50	1	06/07/2016 15:21
1,2-Dichlorobenzene	ND	0.50	1	06/07/2016 15:21
1,3-Dichlorobenzene	ND	0.50	1	06/07/2016 15:21
1,4-Dichlorobenzene	ND	0.50	1	06/07/2016 15:21
Dichlorodifluoromethane	ND	0.50	1	06/07/2016 15:21
1,1-Dichloroethane	ND	0.50	1	06/07/2016 15:21
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	06/07/2016 15:21
1,1-Dichloroethene	ND	0.50	1	06/07/2016 15:21
cis-1,2-Dichloroethene	**1.1**	0.50	1	06/07/2016 15:21
trans-1,2-Dichloroethene	ND	0.50	1	06/07/2016 15:21
1,2-Dichloropropane	ND	0.50	1	06/07/2016 15:21
1,3-Dichloropropane	ND	0.50	1	06/07/2016 15:21
2,2-Dichloropropane	ND	0.50	1	06/07/2016 15:21

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1606116
Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/7/16-6/8/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-4	1606116-004A	Water	05/31/2016	GC18	121942

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	06/07/2016 15:21
cis-1,3-Dichloropropene	ND	0.50	1	06/07/2016 15:21
trans-1,3-Dichloropropene	ND	0.50	1	06/07/2016 15:21
Diisopropyl ether (DIPE)	ND	0.50	1	06/07/2016 15:21
Ethylbenzene	ND	0.50	1	06/07/2016 15:21
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	06/07/2016 15:21
Freon 113	ND	0.50	1	06/07/2016 15:21
Hexachlorobutadiene	ND	0.50	1	06/07/2016 15:21
Hexachloroethane	ND	0.50	1	06/07/2016 15:21
2-Hexanone	ND	0.50	1	06/07/2016 15:21
Isopropylbenzene	ND	0.50	1	06/07/2016 15:21
4-Isopropyl toluene	ND	0.50	1	06/07/2016 15:21
Methyl-t-butyl ether (MTBE)	ND	0.50	1	06/07/2016 15:21
Methylene chloride	ND	0.50	1	06/07/2016 15:21
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	06/07/2016 15:21
Naphthalene	ND	0.50	1	06/07/2016 15:21
n-Propyl benzene	ND	0.50	1	06/07/2016 15:21
Styrene	ND	0.50	1	06/07/2016 15:21
1,1,1,2-Tetrachloroethane	ND	0.50	1	06/07/2016 15:21
1,1,2,2-Tetrachloroethane	ND	0.50	1	06/07/2016 15:21
Tetrachloroethene	**20**	0.50	1	06/07/2016 15:21
Toluene	ND	0.50	1	06/07/2016 15:21
1,2,3-Trichlorobenzene	ND	0.50	1	06/07/2016 15:21
1,2,4-Trichlorobenzene	ND	0.50	1	06/07/2016 15:21
1,1,1-Trichloroethane	ND	0.50	1	06/07/2016 15:21
1,1,2-Trichloroethane	ND	0.50	1	06/07/2016 15:21
Trichloroethene	**2.3**	0.50	1	06/07/2016 15:21
Trichlorofluoromethane	ND	0.50	1	06/07/2016 15:21
1,2,3-Trichloropropane	ND	0.50	1	06/07/2016 15:21
1,2,4-Trimethylbenzene	ND	0.50	1	06/07/2016 15:21
1,3,5-Trimethylbenzene	ND	0.50	1	06/07/2016 15:21
Vinyl Chloride	ND	0.50	1	06/07/2016 15:21
Xylenes, Total	ND	0.50	1	06/07/2016 15:21

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1606116
Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/7/16-6/8/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-4	**1606116-004A**	**Water**	**05/31/2016**	**GC18**	**121942**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	101	70-130		06/07/2016 15:21
Toluene-d8	99	70-130		06/07/2016 15:21
4-BFB	87	70-130		06/07/2016 15:21

Analyst(s): MW

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Angela Rydelius, Lab Manager

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1606116
Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/7/16-6/8/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-5	1606116-005A	Water	05/31/2016	GC16	121942

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	06/07/2016 21:05
tert-Amyl methyl ether (TAME)	ND	0.50	1	06/07/2016 21:05
Benzene	ND	0.50	1	06/07/2016 21:05
Bromobenzene	ND	0.50	1	06/07/2016 21:05
Bromochloromethane	ND	0.50	1	06/07/2016 21:05
Bromodichloromethane	ND	0.50	1	06/07/2016 21:05
Bromoform	ND	0.50	1	06/07/2016 21:05
Bromomethane	ND	0.50	1	06/07/2016 21:05
2-Butanone (MEK)	ND	2.0	1	06/07/2016 21:05
t-Butyl alcohol (TBA)	ND	2.0	1	06/07/2016 21:05
n-Butyl benzene	ND	0.50	1	06/07/2016 21:05
sec-Butyl benzene	ND	0.50	1	06/07/2016 21:05
tert-Butyl benzene	ND	0.50	1	06/07/2016 21:05
Carbon Disulfide	ND	0.50	1	06/07/2016 21:05
Carbon Tetrachloride	ND	0.50	1	06/07/2016 21:05
Chlorobenzene	ND	0.50	1	06/07/2016 21:05
Chloroethane	ND	0.50	1	06/07/2016 21:05
Chloroform	ND	0.50	1	06/07/2016 21:05
Chloromethane	ND	0.50	1	06/07/2016 21:05
2-Chlorotoluene	ND	0.50	1	06/07/2016 21:05
4-Chlorotoluene	ND	0.50	1	06/07/2016 21:05
Dibromochloromethane	ND	0.50	1	06/07/2016 21:05
1,2-Dibromo-3-chloropropane	ND	0.20	1	06/07/2016 21:05
1,2-Dibromoethane (EDB)	ND	0.50	1	06/07/2016 21:05
Dibromomethane	ND	0.50	1	06/07/2016 21:05
1,2-Dichlorobenzene	ND	0.50	1	06/07/2016 21:05
1,3-Dichlorobenzene	ND	0.50	1	06/07/2016 21:05
1,4-Dichlorobenzene	ND	0.50	1	06/07/2016 21:05
Dichlorodifluoromethane	ND	0.50	1	06/07/2016 21:05
1,1-Dichloroethane	**0.85**	0.50	1	06/07/2016 21:05
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	06/07/2016 21:05
1,1-Dichloroethene	ND	0.50	1	06/07/2016 21:05
cis-1,2-Dichloroethene	**4.7**	0.50	1	06/07/2016 21:05
trans-1,2-Dichloroethene	ND	0.50	1	06/07/2016 21:05
1,2-Dichloropropane	ND	0.50	1	06/07/2016 21:05
1,3-Dichloropropane	ND	0.50	1	06/07/2016 21:05
2,2-Dichloropropane	ND	0.50	1	06/07/2016 21:05

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Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/7/16-6/8/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-5	1606116-005A	Water	05/31/2016	GC16	121942

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	06/07/2016 21:05
cis-1,3-Dichloropropene	ND	0.50	1	06/07/2016 21:05
trans-1,3-Dichloropropene	ND	0.50	1	06/07/2016 21:05
Diisopropyl ether (DIPE)	ND	0.50	1	06/07/2016 21:05
Ethylbenzene	ND	0.50	1	06/07/2016 21:05
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	06/07/2016 21:05
Freon 113	**7.7**	0.50	1	06/07/2016 21:05
Hexachlorobutadiene	ND	0.50	1	06/07/2016 21:05
Hexachloroethane	ND	0.50	1	06/07/2016 21:05
2-Hexanone	ND	0.50	1	06/07/2016 21:05
Isopropylbenzene	ND	0.50	1	06/07/2016 21:05
4-Isopropyl toluene	ND	0.50	1	06/07/2016 21:05
Methyl-t-butyl ether (MTBE)	ND	0.50	1	06/07/2016 21:05
Methylene chloride	ND	0.50	1	06/07/2016 21:05
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	06/07/2016 21:05
Naphthalene	ND	0.50	1	06/07/2016 21:05
n-Propyl benzene	ND	0.50	1	06/07/2016 21:05
Styrene	ND	0.50	1	06/07/2016 21:05
1,1,1,2-Tetrachloroethane	ND	0.50	1	06/07/2016 21:05
1,1,2,2-Tetrachloroethane	ND	0.50	1	06/07/2016 21:05
Tetrachloroethene	**0.63**	0.50	1	06/07/2016 21:05
Toluene	ND	0.50	1	06/07/2016 21:05
1,2,3-Trichlorobenzene	ND	0.50	1	06/07/2016 21:05
1,2,4-Trichlorobenzene	ND	0.50	1	06/07/2016 21:05
1,1,1-Trichloroethane	ND	0.50	1	06/07/2016 21:05
1,1,2-Trichloroethane	ND	0.50	1	06/07/2016 21:05
Trichloroethene	**4.4**	0.50	1	06/07/2016 21:05
Trichlorofluoromethane	ND	0.50	1	06/07/2016 21:05
1,2,3-Trichloropropane	ND	0.50	1	06/07/2016 21:05
1,2,4-Trimethylbenzene	ND	0.50	1	06/07/2016 21:05
1,3,5-Trimethylbenzene	ND	0.50	1	06/07/2016 21:05
Vinyl Chloride	**0.60**	0.50	1	06/07/2016 21:05
Xylenes, Total	ND	0.50	1	06/07/2016 21:05

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Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/7/16-6/8/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-5	**1606116-005A**	**Water**	**05/31/2016**	**GC16**	**121942**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	92	70-130		06/07/2016 21:05
Toluene-d8	85	70-130		06/07/2016 21:05
4-BFB	84	70-130		06/07/2016 21:05

Analyst(s): KF

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Analytical Report

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Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/7/16-6/8/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-6	1606116-006A	Water	05/31/2016	GC16	121942

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	100	10	06/08/2016 05:03
tert-Amyl methyl ether (TAME)	ND	5.0	10	06/08/2016 05:03
Benzene	ND	5.0	10	06/08/2016 05:03
Bromobenzene	ND	5.0	10	06/08/2016 05:03
Bromochloromethane	ND	5.0	10	06/08/2016 05:03
Bromodichloromethane	ND	5.0	10	06/08/2016 05:03
Bromoform	ND	5.0	10	06/08/2016 05:03
Bromomethane	ND	5.0	10	06/08/2016 05:03
2-Butanone (MEK)	ND	20	10	06/08/2016 05:03
t-Butyl alcohol (TBA)	ND	20	10	06/08/2016 05:03
n-Butyl benzene	ND	5.0	10	06/08/2016 05:03
sec-Butyl benzene	ND	5.0	10	06/08/2016 05:03
tert-Butyl benzene	ND	5.0	10	06/08/2016 05:03
Carbon Disulfide	ND	5.0	10	06/08/2016 05:03
Carbon Tetrachloride	ND	5.0	10	06/08/2016 05:03
Chlorobenzene	ND	5.0	10	06/08/2016 05:03
Chloroethane	ND	5.0	10	06/08/2016 05:03
Chloroform	ND	5.0	10	06/08/2016 05:03
Chloromethane	ND	5.0	10	06/08/2016 05:03
2-Chlorotoluene	ND	5.0	10	06/08/2016 05:03
4-Chlorotoluene	ND	5.0	10	06/08/2016 05:03
Dibromochloromethane	ND	5.0	10	06/08/2016 05:03
1,2-Dibromo-3-chloropropane	ND	2.0	10	06/08/2016 05:03
1,2-Dibromoethane (EDB)	ND	5.0	10	06/08/2016 05:03
Dibromomethane	ND	5.0	10	06/08/2016 05:03
1,2-Dichlorobenzene	ND	5.0	10	06/08/2016 05:03
1,3-Dichlorobenzene	ND	5.0	10	06/08/2016 05:03
1,4-Dichlorobenzene	ND	5.0	10	06/08/2016 05:03
Dichlorodifluoromethane	ND	5.0	10	06/08/2016 05:03
1,1-Dichloroethane	ND	5.0	10	06/08/2016 05:03
1,2-Dichloroethane (1,2-DCA)	ND	5.0	10	06/08/2016 05:03
1,1-Dichloroethene	ND	5.0	10	06/08/2016 05:03
cis-1,2-Dichloroethene	**10**	5.0	10	06/08/2016 05:03
trans-1,2-Dichloroethene	ND	5.0	10	06/08/2016 05:03
1,2-Dichloropropane	ND	5.0	10	06/08/2016 05:03
1,3-Dichloropropane	ND	5.0	10	06/08/2016 05:03
2,2-Dichloropropane	ND	5.0	10	06/08/2016 05:03

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Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/7/16-6/8/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-6	1606116-006A	Water	05/31/2016	GC16	121942

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	5.0	10	06/08/2016 05:03
cis-1,3-Dichloropropene	ND	5.0	10	06/08/2016 05:03
trans-1,3-Dichloropropene	ND	5.0	10	06/08/2016 05:03
Diisopropyl ether (DIPE)	ND	5.0	10	06/08/2016 05:03
Ethylbenzene	ND	5.0	10	06/08/2016 05:03
Ethyl tert-butyl ether (ETBE)	ND	5.0	10	06/08/2016 05:03
Freon 113	ND	5.0	10	06/08/2016 05:03
Hexachlorobutadiene	ND	5.0	10	06/08/2016 05:03
Hexachloroethane	ND	5.0	10	06/08/2016 05:03
2-Hexanone	ND	5.0	10	06/08/2016 05:03
Isopropylbenzene	ND	5.0	10	06/08/2016 05:03
4-Isopropyl toluene	ND	5.0	10	06/08/2016 05:03
Methyl-t-butyl ether (MTBE)	ND	5.0	10	06/08/2016 05:03
Methylene chloride	ND	5.0	10	06/08/2016 05:03
4-Methyl-2-pentanone (MIBK)	ND	5.0	10	06/08/2016 05:03
Naphthalene	ND	5.0	10	06/08/2016 05:03
n-Propyl benzene	ND	5.0	10	06/08/2016 05:03
Styrene	ND	5.0	10	06/08/2016 05:03
1,1,1,2-Tetrachloroethane	ND	5.0	10	06/08/2016 05:03
1,1,2,2-Tetrachloroethane	ND	5.0	10	06/08/2016 05:03
Tetrachloroethene	ND	5.0	10	06/08/2016 05:03
Toluene	ND	5.0	10	06/08/2016 05:03
1,2,3-Trichlorobenzene	ND	5.0	10	06/08/2016 05:03
1,2,4-Trichlorobenzene	ND	5.0	10	06/08/2016 05:03
1,1,1-Trichloroethane	ND	5.0	10	06/08/2016 05:03
1,1,2-Trichloroethane	ND	5.0	10	06/08/2016 05:03
Trichloroethene	**180**	5.0	10	06/08/2016 05:03
Trichlorofluoromethane	ND	5.0	10	06/08/2016 05:03
1,2,3-Trichloropropane	ND	5.0	10	06/08/2016 05:03
1,2,4-Trimethylbenzene	ND	5.0	10	06/08/2016 05:03
1,3,5-Trimethylbenzene	ND	5.0	10	06/08/2016 05:03
Vinyl Chloride	ND	5.0	10	06/08/2016 05:03
Xylenes, Total	ND	5.0	10	06/08/2016 05:03

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1606116
Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/7/16-6/8/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-6	**1606116-006A**	**Water**	**05/31/2016**	**GC16**	**121942**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	94	70-130		06/08/2016 05:03
Toluene-d8	86	70-130		06/08/2016 05:03
4-BFB	79	70-130		06/08/2016 05:03

Analyst(s): KF

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1606116
Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/7/16-6/8/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-7	1606116-007A	Water	05/31/2016	GC16	121942

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	25	2.5	06/08/2016 05:43
tert-Amyl methyl ether (TAME)	ND	1.2	2.5	06/08/2016 05:43
Benzene	ND	1.2	2.5	06/08/2016 05:43
Bromobenzene	ND	1.2	2.5	06/08/2016 05:43
Bromochloromethane	ND	1.2	2.5	06/08/2016 05:43
Bromodichloromethane	ND	1.2	2.5	06/08/2016 05:43
Bromoform	ND	1.2	2.5	06/08/2016 05:43
Bromomethane	ND	1.2	2.5	06/08/2016 05:43
2-Butanone (MEK)	ND	5.0	2.5	06/08/2016 05:43
t-Butyl alcohol (TBA)	ND	5.0	2.5	06/08/2016 05:43
n-Butyl benzene	ND	1.2	2.5	06/08/2016 05:43
sec-Butyl benzene	ND	1.2	2.5	06/08/2016 05:43
tert-Butyl benzene	ND	1.2	2.5	06/08/2016 05:43
Carbon Disulfide	ND	1.2	2.5	06/08/2016 05:43
Carbon Tetrachloride	ND	1.2	2.5	06/08/2016 05:43
Chlorobenzene	ND	1.2	2.5	06/08/2016 05:43
Chloroethane	ND	1.2	2.5	06/08/2016 05:43
Chloroform	ND	1.2	2.5	06/08/2016 05:43
Chloromethane	ND	1.2	2.5	06/08/2016 05:43
2-Chlorotoluene	ND	1.2	2.5	06/08/2016 05:43
4-Chlorotoluene	ND	1.2	2.5	06/08/2016 05:43
Dibromochloromethane	ND	1.2	2.5	06/08/2016 05:43
1,2-Dibromo-3-chloropropane	ND	0.50	2.5	06/08/2016 05:43
1,2-Dibromoethane (EDB)	ND	1.2	2.5	06/08/2016 05:43
Dibromomethane	ND	1.2	2.5	06/08/2016 05:43
1,2-Dichlorobenzene	ND	1.2	2.5	06/08/2016 05:43
1,3-Dichlorobenzene	ND	1.2	2.5	06/08/2016 05:43
1,4-Dichlorobenzene	ND	1.2	2.5	06/08/2016 05:43
Dichlorodifluoromethane	ND	1.2	2.5	06/08/2016 05:43
1,1-Dichloroethane	**1.7**	1.2	2.5	06/08/2016 05:43
1,2-Dichloroethane (1,2-DCA)	ND	1.2	2.5	06/08/2016 05:43
1,1-Dichloroethene	ND	1.2	2.5	06/08/2016 05:43
cis-1,2-Dichloroethene	**11**	1.2	2.5	06/08/2016 05:43
trans-1,2-Dichloroethene	ND	1.2	2.5	06/08/2016 05:43
1,2-Dichloropropane	ND	1.2	2.5	06/08/2016 05:43
1,3-Dichloropropane	ND	1.2	2.5	06/08/2016 05:43
2,2-Dichloropropane	ND	1.2	2.5	06/08/2016 05:43

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1606116
Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/7/16-6/8/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-7	1606116-007A	Water	05/31/2016	GC16	121942

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	1.2	2.5	06/08/2016 05:43
cis-1,3-Dichloropropene	ND	1.2	2.5	06/08/2016 05:43
trans-1,3-Dichloropropene	ND	1.2	2.5	06/08/2016 05:43
Diisopropyl ether (DIPE)	ND	1.2	2.5	06/08/2016 05:43
Ethylbenzene	ND	1.2	2.5	06/08/2016 05:43
Ethyl tert-butyl ether (ETBE)	ND	1.2	2.5	06/08/2016 05:43
Freon 113	ND	1.2	2.5	06/08/2016 05:43
Hexachlorobutadiene	ND	1.2	2.5	06/08/2016 05:43
Hexachloroethane	ND	1.2	2.5	06/08/2016 05:43
2-Hexanone	ND	1.2	2.5	06/08/2016 05:43
Isopropylbenzene	ND	1.2	2.5	06/08/2016 05:43
4-Isopropyl toluene	ND	1.2	2.5	06/08/2016 05:43
Methyl-t-butyl ether (MTBE)	**2.1**	1.2	2.5	06/08/2016 05:43
Methylene chloride	ND	1.2	2.5	06/08/2016 05:43
4-Methyl-2-pentanone (MIBK)	ND	1.2	2.5	06/08/2016 05:43
Naphthalene	ND	1.2	2.5	06/08/2016 05:43
n-Propyl benzene	ND	1.2	2.5	06/08/2016 05:43
Styrene	ND	1.2	2.5	06/08/2016 05:43
1,1,1,2-Tetrachloroethane	ND	1.2	2.5	06/08/2016 05:43
1,1,2,2-Tetrachloroethane	ND	1.2	2.5	06/08/2016 05:43
Tetrachloroethene	ND	1.2	2.5	06/08/2016 05:43
Toluene	ND	1.2	2.5	06/08/2016 05:43
1,2,3-Trichlorobenzene	ND	1.2	2.5	06/08/2016 05:43
1,2,4-Trichlorobenzene	ND	1.2	2.5	06/08/2016 05:43
1,1,1-Trichloroethane	ND	1.2	2.5	06/08/2016 05:43
1,1,2-Trichloroethane	ND	1.2	2.5	06/08/2016 05:43
Trichloroethene	**53**	1.2	2.5	06/08/2016 05:43
Trichlorofluoromethane	ND	1.2	2.5	06/08/2016 05:43
1,2,3-Trichloropropane	ND	1.2	2.5	06/08/2016 05:43
1,2,4-Trimethylbenzene	ND	1.2	2.5	06/08/2016 05:43
1,3,5-Trimethylbenzene	ND	1.2	2.5	06/08/2016 05:43
Vinyl Chloride	ND	1.2	2.5	06/08/2016 05:43
Xylenes, Total	ND	1.2	2.5	06/08/2016 05:43

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1606116
Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/7/16-6/8/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-7	**1606116-007A**	**Water**	**05/31/2016**	**GC16**	**121942**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	93	70-130		06/08/2016 05:43
Toluene-d8	87	70-130		06/08/2016 05:43
4-BFB	82	70-130		06/08/2016 05:43

Analyst(s): KF

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1606116
Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/7/16-6/8/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-8	1606116-008A	Water	06/01/2016	GC10	121942

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	100	10	06/08/2016 16:02
tert-Amyl methyl ether (TAME)	ND	5.0	10	06/08/2016 16:02
Benzene	ND	5.0	10	06/08/2016 16:02
Bromobenzene	ND	5.0	10	06/08/2016 16:02
Bromochloromethane	ND	5.0	10	06/08/2016 16:02
Bromodichloromethane	ND	5.0	10	06/08/2016 16:02
Bromoform	ND	5.0	10	06/08/2016 16:02
Bromomethane	ND	5.0	10	06/08/2016 16:02
2-Butanone (MEK)	ND	20	10	06/08/2016 16:02
t-Butyl alcohol (TBA)	ND	20	10	06/08/2016 16:02
n-Butyl benzene	ND	5.0	10	06/08/2016 16:02
sec-Butyl benzene	ND	5.0	10	06/08/2016 16:02
tert-Butyl benzene	ND	5.0	10	06/08/2016 16:02
Carbon Disulfide	ND	5.0	10	06/08/2016 16:02
Carbon Tetrachloride	ND	5.0	10	06/08/2016 16:02
Chlorobenzene	ND	5.0	10	06/08/2016 16:02
Chloroethane	ND	5.0	10	06/08/2016 16:02
Chloroform	ND	5.0	10	06/08/2016 16:02
Chloromethane	ND	5.0	10	06/08/2016 16:02
2-Chlorotoluene	ND	5.0	10	06/08/2016 16:02
4-Chlorotoluene	ND	5.0	10	06/08/2016 16:02
Dibromochloromethane	ND	5.0	10	06/08/2016 16:02
1,2-Dibromo-3-chloropropane	ND	2.0	10	06/08/2016 16:02
1,2-Dibromoethane (EDB)	ND	5.0	10	06/08/2016 16:02
Dibromomethane	ND	5.0	10	06/08/2016 16:02
1,2-Dichlorobenzene	ND	5.0	10	06/08/2016 16:02
1,3-Dichlorobenzene	ND	5.0	10	06/08/2016 16:02
1,4-Dichlorobenzene	ND	5.0	10	06/08/2016 16:02
Dichlorodifluoromethane	ND	5.0	10	06/08/2016 16:02
1,1-Dichloroethane	ND	5.0	10	06/08/2016 16:02
1,2-Dichloroethane (1,2-DCA)	ND	5.0	10	06/08/2016 16:02
1,1-Dichloroethene	ND	5.0	10	06/08/2016 16:02
cis-1,2-Dichloroethene	**79**	5.0	10	06/08/2016 16:02
trans-1,2-Dichloroethene	ND	5.0	10	06/08/2016 16:02
1,2-Dichloropropane	ND	5.0	10	06/08/2016 16:02
1,3-Dichloropropane	ND	5.0	10	06/08/2016 16:02
2,2-Dichloropropane	ND	5.0	10	06/08/2016 16:02

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1606116
Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/7/16-6/8/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-8	1606116-008A	Water	06/01/2016	GC10	121942

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	5.0	10	06/08/2016 16:02
cis-1,3-Dichloropropene	ND	5.0	10	06/08/2016 16:02
trans-1,3-Dichloropropene	ND	5.0	10	06/08/2016 16:02
Diisopropyl ether (DIPE)	ND	5.0	10	06/08/2016 16:02
Ethylbenzene	ND	5.0	10	06/08/2016 16:02
Ethyl tert-butyl ether (ETBE)	ND	5.0	10	06/08/2016 16:02
Freon 113	ND	5.0	10	06/08/2016 16:02
Hexachlorobutadiene	ND	5.0	10	06/08/2016 16:02
Hexachloroethane	ND	5.0	10	06/08/2016 16:02
2-Hexanone	ND	5.0	10	06/08/2016 16:02
Isopropylbenzene	ND	5.0	10	06/08/2016 16:02
4-Isopropyl toluene	ND	5.0	10	06/08/2016 16:02
Methyl-t-butyl ether (MTBE)	ND	5.0	10	06/08/2016 16:02
Methylene chloride	ND	5.0	10	06/08/2016 16:02
4-Methyl-2-pentanone (MIBK)	ND	5.0	10	06/08/2016 16:02
Naphthalene	ND	5.0	10	06/08/2016 16:02
n-Propyl benzene	ND	5.0	10	06/08/2016 16:02
Styrene	ND	5.0	10	06/08/2016 16:02
1,1,1,2-Tetrachloroethane	ND	5.0	10	06/08/2016 16:02
1,1,2,2-Tetrachloroethane	ND	5.0	10	06/08/2016 16:02
Tetrachloroethene	**8.4**	5.0	10	06/08/2016 16:02
Toluene	ND	5.0	10	06/08/2016 16:02
1,2,3-Trichlorobenzene	ND	5.0	10	06/08/2016 16:02
1,2,4-Trichlorobenzene	ND	5.0	10	06/08/2016 16:02
1,1,1-Trichloroethane	ND	5.0	10	06/08/2016 16:02
1,1,2-Trichloroethane	ND	5.0	10	06/08/2016 16:02
Trichloroethene	**180**	5.0	10	06/08/2016 16:02
Trichlorofluoromethane	ND	5.0	10	06/08/2016 16:02
1,2,3-Trichloropropane	ND	5.0	10	06/08/2016 16:02
1,2,4-Trimethylbenzene	ND	5.0	10	06/08/2016 16:02
1,3,5-Trimethylbenzene	ND	5.0	10	06/08/2016 16:02
Vinyl Chloride	ND	5.0	10	06/08/2016 16:02
Xylenes, Total	ND	5.0	10	06/08/2016 16:02

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1606116
Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/7/16-6/8/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-8	**1606116-008A**	**Water**	**06/01/2016**	**GC10**	**121942**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	87	70-130		06/08/2016 16:02
Toluene-d8	89	70-130		06/08/2016 16:02
4-BFB	87	70-130		06/08/2016 16:02

Analyst(s): KF

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1606116
Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/7/16-6/8/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-9	1606116-009A	Water	06/01/2016	GC18	121942

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	06/07/2016 23:56
tert-Amyl methyl ether (TAME)	ND	0.50	1	06/07/2016 23:56
Benzene	ND	0.50	1	06/07/2016 23:56
Bromobenzene	ND	0.50	1	06/07/2016 23:56
Bromochloromethane	ND	0.50	1	06/07/2016 23:56
Bromodichloromethane	ND	0.50	1	06/07/2016 23:56
Bromoform	ND	0.50	1	06/07/2016 23:56
Bromomethane	ND	0.50	1	06/07/2016 23:56
2-Butanone (MEK)	ND	2.0	1	06/07/2016 23:56
t-Butyl alcohol (TBA)	ND	2.0	1	06/07/2016 23:56
n-Butyl benzene	ND	0.50	1	06/07/2016 23:56
sec-Butyl benzene	ND	0.50	1	06/07/2016 23:56
tert-Butyl benzene	ND	0.50	1	06/07/2016 23:56
Carbon Disulfide	ND	0.50	1	06/07/2016 23:56
Carbon Tetrachloride	ND	0.50	1	06/07/2016 23:56
Chlorobenzene	ND	0.50	1	06/07/2016 23:56
Chloroethane	ND	0.50	1	06/07/2016 23:56
Chloroform	ND	0.50	1	06/07/2016 23:56
Chloromethane	ND	0.50	1	06/07/2016 23:56
2-Chlorotoluene	ND	0.50	1	06/07/2016 23:56
4-Chlorotoluene	ND	0.50	1	06/07/2016 23:56
Dibromochloromethane	ND	0.50	1	06/07/2016 23:56
1,2-Dibromo-3-chloropropane	ND	0.20	1	06/07/2016 23:56
1,2-Dibromoethane (EDB)	ND	0.50	1	06/07/2016 23:56
Dibromomethane	ND	0.50	1	06/07/2016 23:56
1,2-Dichlorobenzene	ND	0.50	1	06/07/2016 23:56
1,3-Dichlorobenzene	ND	0.50	1	06/07/2016 23:56
1,4-Dichlorobenzene	ND	0.50	1	06/07/2016 23:56
Dichlorodifluoromethane	ND	0.50	1	06/07/2016 23:56
1,1-Dichloroethane	ND	0.50	1	06/07/2016 23:56
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	06/07/2016 23:56
1,1-Dichloroethene	ND	0.50	1	06/07/2016 23:56
cis-1,2-Dichloroethene	**0.99**	0.50	1	06/07/2016 23:56
trans-1,2-Dichloroethene	ND	0.50	1	06/07/2016 23:56
1,2-Dichloropropane	ND	0.50	1	06/07/2016 23:56
1,3-Dichloropropane	ND	0.50	1	06/07/2016 23:56
2,2-Dichloropropane	ND	0.50	1	06/07/2016 23:56

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1606116
Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/7/16-6/8/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-9	1606116-009A	Water	06/01/2016	GC18	121942

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	06/07/2016 23:56
cis-1,3-Dichloropropene	ND	0.50	1	06/07/2016 23:56
trans-1,3-Dichloropropene	ND	0.50	1	06/07/2016 23:56
Diisopropyl ether (DIPE)	ND	0.50	1	06/07/2016 23:56
Ethylbenzene	ND	0.50	1	06/07/2016 23:56
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	06/07/2016 23:56
Freon 113	ND	0.50	1	06/07/2016 23:56
Hexachlorobutadiene	ND	0.50	1	06/07/2016 23:56
Hexachloroethane	ND	0.50	1	06/07/2016 23:56
2-Hexanone	ND	0.50	1	06/07/2016 23:56
Isopropylbenzene	ND	0.50	1	06/07/2016 23:56
4-Isopropyl toluene	ND	0.50	1	06/07/2016 23:56
Methyl-t-butyl ether (MTBE)	**0.58**	0.50	1	06/07/2016 23:56
Methylene chloride	ND	0.50	1	06/07/2016 23:56
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	06/07/2016 23:56
Naphthalene	ND	0.50	1	06/07/2016 23:56
n-Propyl benzene	ND	0.50	1	06/07/2016 23:56
Styrene	ND	0.50	1	06/07/2016 23:56
1,1,1,2-Tetrachloroethane	ND	0.50	1	06/07/2016 23:56
1,1,2,2-Tetrachloroethane	ND	0.50	1	06/07/2016 23:56
Tetrachloroethene	ND	0.50	1	06/07/2016 23:56
Toluene	ND	0.50	1	06/07/2016 23:56
1,2,3-Trichlorobenzene	ND	0.50	1	06/07/2016 23:56
1,2,4-Trichlorobenzene	ND	0.50	1	06/07/2016 23:56
1,1,1-Trichloroethane	ND	0.50	1	06/07/2016 23:56
1,1,2-Trichloroethane	ND	0.50	1	06/07/2016 23:56
Trichloroethene	**1.4**	0.50	1	06/07/2016 23:56
Trichlorofluoromethane	ND	0.50	1	06/07/2016 23:56
1,2,3-Trichloropropane	ND	0.50	1	06/07/2016 23:56
1,2,4-Trimethylbenzene	ND	0.50	1	06/07/2016 23:56
1,3,5-Trimethylbenzene	ND	0.50	1	06/07/2016 23:56
Vinyl Chloride	ND	0.50	1	06/07/2016 23:56
Xylenes, Total	ND	0.50	1	06/07/2016 23:56

(Cont.)

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1606116
Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/7/16-6/8/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-9	**1606116-009A**	**Water**	**06/01/2016**	**GC18**	**121942**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	101	70-130		06/07/2016 23:56
Toluene-d8	97	70-130		06/07/2016 23:56
4-BFB	88	70-130		06/07/2016 23:56

Analyst(s): MW

(Cont.)

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1606116
Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/7/16-6/8/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-10	1606116-010A	Water	06/01/2016	GC18	121942

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	06/08/2016 00:35
tert-Amyl methyl ether (TAME)	ND	0.50	1	06/08/2016 00:35
Benzene	ND	0.50	1	06/08/2016 00:35
Bromobenzene	ND	0.50	1	06/08/2016 00:35
Bromochloromethane	ND	0.50	1	06/08/2016 00:35
Bromodichloromethane	ND	0.50	1	06/08/2016 00:35
Bromoform	ND	0.50	1	06/08/2016 00:35
Bromomethane	ND	0.50	1	06/08/2016 00:35
2-Butanone (MEK)	ND	2.0	1	06/08/2016 00:35
t-Butyl alcohol (TBA)	ND	2.0	1	06/08/2016 00:35
n-Butyl benzene	ND	0.50	1	06/08/2016 00:35
sec-Butyl benzene	ND	0.50	1	06/08/2016 00:35
tert-Butyl benzene	ND	0.50	1	06/08/2016 00:35
Carbon Disulfide	ND	0.50	1	06/08/2016 00:35
Carbon Tetrachloride	ND	0.50	1	06/08/2016 00:35
Chlorobenzene	ND	0.50	1	06/08/2016 00:35
Chloroethane	ND	0.50	1	06/08/2016 00:35
Chloroform	ND	0.50	1	06/08/2016 00:35
Chloromethane	ND	0.50	1	06/08/2016 00:35
2-Chlorotoluene	ND	0.50	1	06/08/2016 00:35
4-Chlorotoluene	ND	0.50	1	06/08/2016 00:35
Dibromochloromethane	ND	0.50	1	06/08/2016 00:35
1,2-Dibromo-3-chloropropane	ND	0.20	1	06/08/2016 00:35
1,2-Dibromoethane (EDB)	ND	0.50	1	06/08/2016 00:35
Dibromomethane	ND	0.50	1	06/08/2016 00:35
1,2-Dichlorobenzene	ND	0.50	1	06/08/2016 00:35
1,3-Dichlorobenzene	ND	0.50	1	06/08/2016 00:35
1,4-Dichlorobenzene	ND	0.50	1	06/08/2016 00:35
Dichlorodifluoromethane	ND	0.50	1	06/08/2016 00:35
1,1-Dichloroethane	**0.63**	0.50	1	06/08/2016 00:35
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	06/08/2016 00:35
1,1-Dichloroethene	ND	0.50	1	06/08/2016 00:35
cis-1,2-Dichloroethene	**1.2**	0.50	1	06/08/2016 00:35
trans-1,2-Dichloroethene	ND	0.50	1	06/08/2016 00:35
1,2-Dichloropropane	ND	0.50	1	06/08/2016 00:35
1,3-Dichloropropane	ND	0.50	1	06/08/2016 00:35
2,2-Dichloropropane	ND	0.50	1	06/08/2016 00:35

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1606116
Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/7/16-6/8/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-10	1606116-010A	Water	06/01/2016	GC18	121942

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	06/08/2016 00:35
cis-1,3-Dichloropropene	ND	0.50	1	06/08/2016 00:35
trans-1,3-Dichloropropene	ND	0.50	1	06/08/2016 00:35
Diisopropyl ether (DIPE)	ND	0.50	1	06/08/2016 00:35
Ethylbenzene	ND	0.50	1	06/08/2016 00:35
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	06/08/2016 00:35
Freon 113	ND	0.50	1	06/08/2016 00:35
Hexachlorobutadiene	ND	0.50	1	06/08/2016 00:35
Hexachloroethane	ND	0.50	1	06/08/2016 00:35
2-Hexanone	ND	0.50	1	06/08/2016 00:35
Isopropylbenzene	ND	0.50	1	06/08/2016 00:35
4-Isopropyl toluene	ND	0.50	1	06/08/2016 00:35
Methyl-t-butyl ether (MTBE)	ND	0.50	1	06/08/2016 00:35
Methylene chloride	ND	0.50	1	06/08/2016 00:35
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	06/08/2016 00:35
Naphthalene	ND	0.50	1	06/08/2016 00:35
n-Propyl benzene	ND	0.50	1	06/08/2016 00:35
Styrene	ND	0.50	1	06/08/2016 00:35
1,1,1,2-Tetrachloroethane	ND	0.50	1	06/08/2016 00:35
1,1,2,2-Tetrachloroethane	ND	0.50	1	06/08/2016 00:35
Tetrachloroethene	ND	0.50	1	06/08/2016 00:35
Toluene	ND	0.50	1	06/08/2016 00:35
1,2,3-Trichlorobenzene	ND	0.50	1	06/08/2016 00:35
1,2,4-Trichlorobenzene	ND	0.50	1	06/08/2016 00:35
1,1,1-Trichloroethane	ND	0.50	1	06/08/2016 00:35
1,1,2-Trichloroethane	ND	0.50	1	06/08/2016 00:35
Trichloroethene	**1.3**	0.50	1	06/08/2016 00:35
Trichlorofluoromethane	ND	0.50	1	06/08/2016 00:35
1,2,3-Trichloropropane	ND	0.50	1	06/08/2016 00:35
1,2,4-Trimethylbenzene	ND	0.50	1	06/08/2016 00:35
1,3,5-Trimethylbenzene	ND	0.50	1	06/08/2016 00:35
Vinyl Chloride	ND	0.50	1	06/08/2016 00:35
Xylenes, Total	ND	0.50	1	06/08/2016 00:35

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1606116
Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/7/16-6/8/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-10	1606116-010A	Water	06/01/2016	GC18	121942

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	101	70-130		06/08/2016 00:35
Toluene-d8	95	70-130		06/08/2016 00:35
4-BFB	88	70-130		06/08/2016 00:35

Analyst(s): MW

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Analytical Report

Client: SCS Engineers
Date Received: 6/2/16 12:00
Date Prepared: 6/7/16-6/8/16
Project: 01215172.04; Scientology

WorkOrder: 1606116
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

TPH(g) by Purge & Trap and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-1	1606116-001A	Water	05/31/2016	GC18	121942

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**190**	50	1	06/07/2016 13:23

Surrogates	REC (%)	Limits	
Dibromofluoromethane	92	70-130	06/07/2016 13:23

Analyst(s): MW

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-2	1606116-002A	Water	05/31/2016	GC18	121942

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**150**	50	1	06/07/2016 14:02

Surrogates	REC (%)	Limits	
Dibromofluoromethane	92	70-130	06/07/2016 14:02

Analyst(s): MW

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-3	1606116-003A	Water	05/31/2016	GC18	121942

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	06/07/2016 14:41

Surrogates	REC (%)	Limits	
Dibromofluoromethane	92	70-130	06/07/2016 14:41

Analyst(s): MW

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-4	1606116-004A	Water	05/31/2016	GC18	121942

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	06/07/2016 15:21

Surrogates	REC (%)	Limits	
Dibromofluoromethane	92	70-130	06/07/2016 15:21

Analyst(s): MW

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Analytical Report

Client: SCS Engineers
Date Received: 6/2/16 12:00
Date Prepared: 6/7/16-6/8/16
Project: 01215172.04; Scientology

WorkOrder: 1606116
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

TPH(g) by Purge & Trap and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-5	1606116-005A	Water	05/31/2016	GC18	121942

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	06/07/2016 16:45

Surrogates	REC (%)	Limits	
Dibromofluoromethane	93	70-130	06/07/2016 16:45

Analyst(s): MW

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-6	1606116-006A	Water	05/31/2016	GC18	121942

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**200**	50	1	06/07/2016 16:06

Surrogates	REC (%)	Limits	
Dibromofluoromethane	92	70-130	06/07/2016 16:06

Analyst(s): MW

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-7	1606116-007A	Water	05/31/2016	GC18	121942

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**90**	50	1	06/07/2016 17:25

Surrogates	REC (%)	Limits	
Dibromofluoromethane	93	70-130	06/07/2016 17:25

Analyst(s): MW

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-8	1606116-008A	Water	06/01/2016	GC18	121942

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**250**	50	1	06/07/2016 23:17

Surrogates	REC (%)	Limits	
Dibromofluoromethane	92	70-130	06/07/2016 23:17

Analyst(s): MW

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1606116
Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/7/16-6/8/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	µg/L

TPH(g) by Purge & Trap and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-9	1606116-009A	Water	06/01/2016	GC18	121942

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	06/07/2016 23:56

Surrogates	REC (%)	Limits	
Dibromofluoromethane	92	70-130	06/07/2016 23:56

Analyst(s): MW

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW-10	1606116-010A	Water	06/01/2016	GC18	121942

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	06/08/2016 00:35

Surrogates	REC (%)	Limits	
Dibromofluoromethane	92	70-130	06/08/2016 00:35

Analyst(s): MW

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1606116
Date Prepared:	6/7/16	**BatchID:**	121942
Date Analyzed:	6/7/16	**Extraction Method:**	SW5030B
Instrument:	GC18	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	01215172.04; Scientology	**Sample ID:**	MB/LCS-121942 1606072-001CMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	10.2	0.50	10	-	102	54-140
Benzene	ND	10.0	0.50	10	-	100	47-158
Bromobenzene	ND	-	0.50	-	-	-	-
Bromochloromethane	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.50	-	-	-	-
Bromoform	ND	-	0.50	-	-	-	-
Bromomethane	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	2.0	-	-	-	-
t-Butyl alcohol (TBA)	ND	37.4	2.0	40	-	93	42-140
n-Butyl benzene	ND	-	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	-	0.50	-	-	-	-
Chlorobenzene	ND	9.92	0.50	10	-	99	43-157
Chloroethane	ND	-	0.50	-	-	-	-
Chloroform	ND	-	0.50	-	-	-	-
Chloromethane	ND	-	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.50	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.20	-	-	-	-
1,2-Dibromoethane (EDB)	ND	9.49	0.50	10	-	95	44-155
Dibromomethane	ND	-	0.50	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.50	-	-	-	-
Dichlorodifluoromethane	ND	-	0.50	-	-	-	-
1,1-Dichloroethane	ND	-	0.50	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	9.38	0.50	10	-	94	66-125
1,1-Dichloroethene	ND	10.5	0.50	10	-	105	47-149
cis-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
1,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,3-Dichloropropane	ND	-	0.50	-	-	-	-
2,2-Dichloropropane	ND	-	0.50	-	-	-	-

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1606116
Date Prepared:	6/7/16	**BatchID:**	121942
Date Analyzed:	6/7/16	**Extraction Method:**	SW5030B
Instrument:	GC18	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	01215172.04; Scientology	**Sample ID:**	MB/LCS-121942 1606072-001CMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.50	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
Diisopropyl ether (DIPE)	ND	10.3	0.50	10	-	103	57-136
Ethanol	ND	-	50	-	-	-	-
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	9.90	0.50	10	-	99	55-137
Freon 113	ND	-	0.50	-	-	-	-
Hexachlorobutadiene	ND	-	0.50	-	-	-	-
Hexachloroethane	ND	-	0.50	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
Isopropylbenzene	ND	-	0.50	-	-	-	-
4-Isopropyl toluene	ND	-	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	9.52	0.50	10	-	95	53-139
Methylene chloride	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-
Naphthalene	ND	-	0.50	-	-	-	-
n-Propyl benzene	ND	-	0.50	-	-	-	-
Styrene	ND	-	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
Tetrachloroethene	ND	-	0.50	-	-	-	-
Toluene	ND	10.1	0.50	10	-	101	52-137
1,2,3-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.50	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.50	-	-	-	-
Trichloroethene	ND	10.1	0.50	10	-	101	43-157
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	-	0.50	-	-	-	-
Xylenes, Total	ND	-	0.50	-	-	-	-

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QA/QC Officer

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1606116
Date Prepared:	6/7/16	**BatchID:**	121942
Date Analyzed:	6/7/16	**Extraction Method:**	SW5030B
Instrument:	GC18	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	01215172.04; Scientology	**Sample ID:**	MB/LCS-121942 1606072-001CMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	24.6	24.7		25	98	99	70-130
Toluene-d8	24.8	24.7		25	99	99	70-130
4-BFB	2.26	2.40		2.5	90	96	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	10.6	11.4	10	ND	106	114	69-139	7.03	20
Benzene	8.92	10.1	10	ND	89	101	69-141	12.1	20
t-Butyl alcohol (TBA)	51.5	53.0	40	ND	129	133	41-152	2.98	20
Chlorobenzene	8.96	9.99	10	ND	90	100	77-120	10.8	20
1,2-Dibromoethane (EDB)	9.97	10.6	10	ND	100	106	76-135	6.41	20
1,2-Dichloroethane (1,2-DCA)	9.40	10.2	10	ND	94	103	73-139	8.71	20
1,1-Dichloroethene	9.14	10.5	10	ND	91	105	59-140	13.7	20
Diisopropyl ether (DIPE)	9.81	10.8	10	ND	98	108	72-140	9.42	20
Ethyl tert-butyl ether (ETBE)	10.1	11.0	10	ND	101	110	71-140	8.29	20
Methyl-t-butyl ether (MTBE)	10.3	11.0	10	ND	103	110	73-139	6.68	20
Toluene	8.88	10.0	10	ND	89	100	71-128	12.2	20
Trichloroethene	8.91	10.1	10	ND	89	101	64-132	12.7	20
Surrogate Recovery									
Dibromofluoromethane	25.2	25.3	25		101	101	73-131	0	20
Toluene-d8	24.5	24.4	25		98	98	72-117	0	20
4-BFB	2.33	2.35	2.5		93	94	74-116	0.890	20

CLIENT: SCS Engineers
Work Order: 1606116
Project: 01215172.04; Scientology

ANALYTICAL QC SUMMARY REPORT

BatchID: 121942

SampleID **MB-121942**	TestCode: **8260GAS_W**	Units: **µg/L**	Prep Date: **6/7/2016**
Batch ID: **121942**	TestNo: **SW8260B**	Run ID: **GC18_160607E**	Analysis Date: **6/7/2016**

Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
TPH(g)	ND	50				-				
Surrogate Recovery										
Dibromofluoromethane	22.5		25		90	70 - 130				

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

CDPH ELAP 1644 ♦ NELAP 4033ORELAP

Angela Rydelius, Lab Manager

CLIENT: SCS Engineers
Work Order: 1606116
Project: 01215172.04; Scientology

ANALYTICAL QC SUMMARY REPORT

BatchID: 121942

SampleID **LCS-121942**	TestCode: **8260GAS_W**	Units: **µg/L**	Prep Date: **6/7/2016**
Batch ID: **121942**	TestNo: **SW8260B**	Run ID: **GC18_160607E**	Analysis Date: **6/7/2016**

Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
VOC (C6-C12)	551	50	644	0	86	70 - 130				
Surrogate Recovery										
Dibromofluoromethane	22.6		25		90	70 - 130				

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

CDPH ELAP 1644 ♦ NELAP 4033ORELAP

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1606116 **ClientCode: SCSD**

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☑ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Alex Tuveson
SCS Engineers
7041 Koll Center Parkway, Suite 135
Pleasanton, CA 94566
(925) 426-0080 FAX: (925) 426-0707

Email: atuveson@scsengineers.com; mgrisham@
cc/3rd Party:
PO:
ProjectNo: 01215172.04; Scientology

Bill to:
Accounts Payable
SCS Engineers
7041 Koll Center Parkway, Suite 135
Pleasanton, CA 94566
MGrisham@SCSEngineers.com

Requested TAT: 5 days;

Date Received: **06/02/2016**
Date Logged: **06/02/2016**

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
1606116-001	GW-1	Water	5/31/2016	☐	A	A	A									
1606116-002	GW-2	Water	5/31/2016	☐	A	A										
1606116-003	GW-3	Water	5/31/2016	☐	A	A										
1606116-004	GW-4	Water	5/31/2016	☐	A	A										
1606116-005	GW-5	Water	5/31/2016	☐	A	A										
1606116-006	GW-6	Water	5/31/2016	☐	A	A										
1606116-007	GW-7	Water	5/31/2016	☐	A	A										
1606116-008	GW-8	Water	6/1/2016	☐	A	A										
1606116-009	GW-9	Water	6/1/2016	☐	A	A										
1606116-010	GW-10	Water	6/1/2016	☐	A	A										

Test Legend:

1	8260B_W	2	8260GAS_W	3	PREDF REPORT	4	
5		6		7		8	
9		10		11		12	

Prepared by: Briana Cutino

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 010A contain testgroup.

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: SCS ENGINEERS
Project: 01215172.04; Scientology
Comments:

QC Level: LEVEL 2
Client Contact: Alex Tuveson
Contact's Email: atuveson@scsengineers.com; mgrisham@scseng.com

Work Order: 1606116
Date Logged: 6/2/2016

☐ 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
1606116-001A	GW-1	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	2	VOA w/ HCl	☐	5/31/2016	5 days	Trace	☐	
1606116-002A	GW-2	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	2	VOA w/ HCl	☐	5/31/2016	5 days	Trace	☐	
1606116-003A	GW-3	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	2	VOA w/ HCl	☐	5/31/2016	5 days	Trace	☐	
1606116-004A	GW-4	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	2	VOA w/ HCl	☐	5/31/2016	5 days	Trace	☐	
1606116-005A	GW-5	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	2	VOA w/ HCl	☐	5/31/2016	5 days	Trace	☐	
1606116-006A	GW-6	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	2	VOA w/ HCl	☐	5/31/2016	5 days	Trace	☐	
1606116-007A	GW-7	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	2	VOA w/ HCl	☐	5/31/2016	5 days	Trace	☐	
1606116-008A	GW-8	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	2	VOA w/ HCl	☐	6/1/2016	5 days	Trace	☐	
1606116-009A	GW-9	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	2	VOA w/ HCl	☐	6/1/2016	5 days	Trace	☐	
1606116-010A	GW-10	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	2	VOA w/ HCl	☐	6/1/2016	5 days	Trace	☐	

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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ICE/1/16

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH ☐ 1 DAY ☐ 2 DAY ☐ 3 DAY ☐ 5 DAY ☒

GeoTracker EDF ☒ PDF ☐ EDD ☐ Write On (DW) ☐ EQuIS ☐ 10 DAY ☐

Effluent Sample Requiring "J" flag ☐ **UST Clean Up Fund Project** ☐ ; **Claim #**_____

Report To: ALEX TOVESON **Bill To:**

Company: SCS ENGINEERS

Tele: ( ) **E-Mail:**

Project #: 01215172.04 **Project Name:** SCIENTOLOGY

Project Location: MTN VIEW **Purchase Order#**

Sampler Signature:

SAMPLE ID	Location/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	MATRIX: Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	METHOD PRESERVED: HCL	HNO_3	Other
GW-1		5/31/16		2	X										
GW-2					X										
GW-3					X										
GW-4					X										
GW-5					X										
GW-6					X										
GW-7					X										
GW-8		6/1/16			X										
GW-9					X										
GW-10					X										

Analysis Request

BTEX & TPH as Gas (8021/ 8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ; Aroclors only	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)***	LUFT 5 Metals (200.8 / 6020)***	Metals (200.8 / 6020)***	Lab to Filter sample for Dissolved metals analysis	TPH GAS 8260 VOCs 8260				
															X	X			
															X	X			
															X	X			
															X	X			
															X	X			
															X	X			
															X	X			
															X	X			
															X	X			
															X	X			

****MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.**

***** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.**

Relinquished By:	Date:	Time:	Received By:
	6/2/16	1200	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t°_____
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

COMMENTS:

VOAS O&G METALS OTHER HAZARDOUS:
PRESERVATION_____ pH<2_____

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Sample Receipt Checklist

Client Name:	**SCS Engineers**	Date and Time Received:	**6/2/2016 12:00**
Project Name:	**01215172.04; Scientology**	Date Logged:	**6/2/2016**
WorkOrder №:	**1606116** Matrix: Water	Received by:	Jena Alfaro
Carrier:	Client Drop-In	Logged by:	Briana Cutino

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 ☐	
Sample/Temp Blank temperature	Temp: 2.1°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:

McCampbell Analytical, Inc.
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Analytical Report

WorkOrder: 1606117

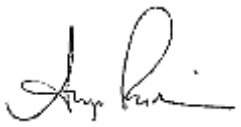
Report Created for: SCS Engineers

7041 Koll Center Parkway, Suite 135
Pleasanton, CA 94566

Project Contact: Alex Tuveson
Project P.O.:
Project Name: 01215172.04; Scientology

Project Received: 06/02/2016

Analytical Report reviewed & approved for release on 06/08/2016 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.



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Glossary of Terms & Qualifier Definitions

Client: SCS Engineers
Project: 01215172.04; Scientology
WorkOrder: 1606117

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)

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1606117
Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/2/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Soil	1606117-001A	Soil	06/01/2016	GC16	121776

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	06/07/2016 14:47
tert-Amyl methyl ether (TAME)	ND	0.0050	1	06/07/2016 14:47
Benzene	ND	0.0050	1	06/07/2016 14:47
Bromobenzene	ND	0.0050	1	06/07/2016 14:47
Bromochloromethane	ND	0.0050	1	06/07/2016 14:47
Bromodichloromethane	ND	0.0050	1	06/07/2016 14:47
Bromoform	ND	0.0050	1	06/07/2016 14:47
Bromomethane	ND	0.0050	1	06/07/2016 14:47
2-Butanone (MEK)	ND	0.020	1	06/07/2016 14:47
t-Butyl alcohol (TBA)	ND	0.050	1	06/07/2016 14:47
n-Butyl benzene	ND	0.0050	1	06/07/2016 14:47
sec-Butyl benzene	ND	0.0050	1	06/07/2016 14:47
tert-Butyl benzene	ND	0.0050	1	06/07/2016 14:47
Carbon Disulfide	ND	0.0050	1	06/07/2016 14:47
Carbon Tetrachloride	ND	0.0050	1	06/07/2016 14:47
Chlorobenzene	ND	0.0050	1	06/07/2016 14:47
Chloroethane	ND	0.0050	1	06/07/2016 14:47
Chloroform	ND	0.0050	1	06/07/2016 14:47
Chloromethane	ND	0.0050	1	06/07/2016 14:47
2-Chlorotoluene	ND	0.0050	1	06/07/2016 14:47
4-Chlorotoluene	ND	0.0050	1	06/07/2016 14:47
Dibromochloromethane	ND	0.0050	1	06/07/2016 14:47
1,2-Dibromo-3-chloropropane	ND	0.0040	1	06/07/2016 14:47
1,2-Dibromoethane (EDB)	ND	0.0040	1	06/07/2016 14:47
Dibromomethane	ND	0.0050	1	06/07/2016 14:47
1,2-Dichlorobenzene	ND	0.0050	1	06/07/2016 14:47
1,3-Dichlorobenzene	ND	0.0050	1	06/07/2016 14:47
1,4-Dichlorobenzene	ND	0.0050	1	06/07/2016 14:47
Dichlorodifluoromethane	ND	0.0050	1	06/07/2016 14:47
1,1-Dichloroethane	ND	0.0050	1	06/07/2016 14:47
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	06/07/2016 14:47
1,1-Dichloroethene	ND	0.0050	1	06/07/2016 14:47
cis-1,2-Dichloroethene	ND	0.0050	1	06/07/2016 14:47
trans-1,2-Dichloroethene	ND	0.0050	1	06/07/2016 14:47
1,2-Dichloropropane	ND	0.0050	1	06/07/2016 14:47
1,3-Dichloropropane	ND	0.0050	1	06/07/2016 14:47
2,2-Dichloropropane	ND	0.0050	1	06/07/2016 14:47

(Cont.)

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1606117
Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/2/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Soil	**1606117-001A**	**Soil**	**06/01/2016**	**GC16**	**121776**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	06/07/2016 14:47
cis-1,3-Dichloropropene	ND	0.0050	1	06/07/2016 14:47
trans-1,3-Dichloropropene	ND	0.0050	1	06/07/2016 14:47
Diisopropyl ether (DIPE)	ND	0.0050	1	06/07/2016 14:47
Ethylbenzene	ND	0.0050	1	06/07/2016 14:47
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	06/07/2016 14:47
Freon 113	ND	0.0050	1	06/07/2016 14:47
Hexachlorobutadiene	ND	0.0050	1	06/07/2016 14:47
Hexachloroethane	ND	0.0050	1	06/07/2016 14:47
2-Hexanone	ND	0.0050	1	06/07/2016 14:47
Isopropylbenzene	ND	0.0050	1	06/07/2016 14:47
4-Isopropyl toluene	ND	0.0050	1	06/07/2016 14:47
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	06/07/2016 14:47
Methylene chloride	ND	0.0050	1	06/07/2016 14:47
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	06/07/2016 14:47
Naphthalene	ND	0.0050	1	06/07/2016 14:47
n-Propyl benzene	ND	0.0050	1	06/07/2016 14:47
Styrene	ND	0.0050	1	06/07/2016 14:47
1,1,1,2-Tetrachloroethane	ND	0.0050	1	06/07/2016 14:47
1,1,2,2-Tetrachloroethane	ND	0.0050	1	06/07/2016 14:47
Tetrachloroethene	**0.017**	0.0050	1	06/07/2016 14:47
Toluene	ND	0.0050	1	06/07/2016 14:47
1,2,3-Trichlorobenzene	ND	0.0050	1	06/07/2016 14:47
1,2,4-Trichlorobenzene	ND	0.0050	1	06/07/2016 14:47
1,1,1-Trichloroethane	ND	0.0050	1	06/07/2016 14:47
1,1,2-Trichloroethane	ND	0.0050	1	06/07/2016 14:47
Trichloroethene	ND	0.0050	1	06/07/2016 14:47
Trichlorofluoromethane	ND	0.0050	1	06/07/2016 14:47
1,2,3-Trichloropropane	ND	0.0050	1	06/07/2016 14:47
1,2,4-Trimethylbenzene	ND	0.0050	1	06/07/2016 14:47
1,3,5-Trimethylbenzene	ND	0.0050	1	06/07/2016 14:47
Vinyl Chloride	ND	0.0050	1	06/07/2016 14:47
Xylenes, Total	ND	0.0050	1	06/07/2016 14:47

(Cont.)

NELAP 4033ORELAP

Angela Rydelius, Lab Manager

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1606117
Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/2/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Soil	1606117-001A	Soil	06/01/2016	GC16	121776

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	89	70-130		06/07/2016 14:47
Toluene-d8	94	70-130		06/07/2016 14:47
4-BFB	98	70-130		06/07/2016 14:47
Benzene-d6	85	60-140		06/07/2016 14:47
Ethylbenzene-d10	93	60-140		06/07/2016 14:47
1,2-DCB-d4	75	60-140		06/07/2016 14:47

Analyst(s): AK

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1606117
Date Received:	6/2/16 12:00	**Extraction Method:**	SW5030B
Date Prepared:	6/2/16	**Analytical Method:**	SW8260B
Project:	01215172.04; Scientology	**Unit:**	mg/kg

TPH(g) by Purge & Trap and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Soil	**1606117-001A**	**Soil**	**06/01/2016**	**GC16**	**121776**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	06/07/2016 14:47
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	104	70-130		06/07/2016 14:47
Benzene-D6	92	60-140		06/07/2016 14:47

Analyst(s): AK

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1606117
Date Prepared:	6/2/16	**BatchID:**	121776
Date Analyzed:	6/4/16 - 6/6/16	**Extraction Method:**	SW5030B
Instrument:	GC10, GC18	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	01215172.04; Scientology	**Sample ID:**	MB/LCS-121776 1606101-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0378	0.0050	0.050	-	76	53-116
Benzene	ND	0.0424	0.0050	0.050	-	85	63-137
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.182	0.050	0.20	-	91	41-135
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0473	0.0050	0.050	-	95	77-121
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0405	0.0040	0.050	-	81	67-119
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0430	0.0040	0.050	-	86	58-135
1,1-Dichloroethene	ND	0.0355	0.0050	0.050	-	71	42-145
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-

(Cont.)

NELAP 4033ORELAP

QA/QC Officer

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1606117
Date Prepared:	6/2/16	**BatchID:**	121776
Date Analyzed:	6/4/16 - 6/6/16	**Extraction Method:**	SW5030B
Instrument:	GC10, GC18	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	01215172.04; Scientology	**Sample ID:**	MB/LCS-121776 1606101-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
Diisopropyl ether (DIPE)	ND	0.0429	0.0050	0.050	-	86	52-129
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0379	0.0050	0.050	-	76	53-125
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0392	0.0050	0.050	-	78	58-122
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0472	0.0050	0.050	-	94	76-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0424	0.0050	0.050	-	85	72-132
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-

(Cont.)

NELAP 4033ORELAP

QA/QC Officer

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1606117
Date Prepared:	6/2/16	**BatchID:**	121776
Date Analyzed:	6/4/16 - 6/6/16	**Extraction Method:**	SW5030B
Instrument:	GC10, GC18	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	01215172.04; Scientology	**Sample ID:**	MB/LCS-121776 1606101-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	0.118	0.112		0.12	94	90	70-130
Toluene-d8	0.135	0.132		0.12	108	105	70-130
4-BFB	0.0122	0.0123		0.012	98	98	70-130
Benzene-d6	0.103	0.0902		0.10	103	90	60-140
Ethylbenzene-d10	0.117	0.108		0.10	117	108	60-140
1,2-DCB-d4	0.0906	0.0913		0.10	91	91	60-140

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	0.0433	0.0451	0.050	ND	87	90	53-116	3.98	20
Benzene	0.0526	0.0544	0.050	ND	105	109	63-137	3.42	20
t-Butyl alcohol (TBA)	0.194	0.205	0.20	ND	97	102	41-135	5.55	20
Chlorobenzene	0.0543	0.0557	0.050	ND	109	111	77-121	2.60	20
1,2-Dibromoethane (EDB)	0.0460	0.0478	0.050	ND	92	96	67-119	3.93	20
1,2-Dichloroethane (1,2-DCA)	0.0505	0.0526	0.050	ND	101	105	58-135	4.26	20
1,1-Dichloroethene	0.0489	0.0502	0.050	ND	98	100	42-145	2.48	20
Diisopropyl ether (DIPE)	0.0510	0.0528	0.050	ND	102	106	52-129	3.61	20
Ethyl tert-butyl ether (ETBE)	0.0438	0.0459	0.050	ND	88	92	53-125	4.79	20
Methyl-t-butyl ether (MTBE)	0.0448	0.0469	0.050	ND	90	94	58-122	4.64	20
Toluene	0.0560	0.0592	0.050	ND	112	118	76-130	5.51	20
Trichloroethene	0.0574	0.0584	0.050	ND	115	117	72-132	1.69	20
Surrogate Recovery									
Dibromofluoromethane	0.113	0.113	0.12		91	90	70-130	0.785	20
Toluene-d8	0.127	0.129	0.12		102	103	70-130	1.11	20
4-BFB	0.0121	0.0122	0.012		97	97	70-130	0	20
Benzene-d6	0.0953	0.0921	0.10		95	92	60-140	3.51	20
Ethylbenzene-d10	0.107	0.109	0.10		107	109	60-140	2.29	20
1,2-DCB-d4	0.0857	0.0865	0.10		86	86	60-140	0	20

CLIENT: SCS Engineers
Work Order: 1606117
Project: 01215172.04; Scientology

ANALYTICAL QC SUMMARY REPORT

BatchID: 121776

SampleID **MB-121776**	TestCode: **8260gas_s**	Units: **mg/kg**	Prep Date: **6/2/2016**
Batch ID: **121776**	TestNo: **SW8260B**	Run ID: **GC18_160608C**	Analysis Date: **6/4/2016**

Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
TPH(g)	ND	0.25				-				
Surrogate Recovery										
Dibromofluoromethane	0.109		0.125		87	70 - 130				
Benzene-D6	0.112		0.1		112	70 - 130				

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

CDPH ELAP 1644 ♦ NELAP 4033ORELAP

Angela Rydelius, Lab Manager

CLIENT: SCS Engineers
Work Order: 1606117
Project: 01215172.04; Scientology

ANALYTICAL QC SUMMARY REPORT

BatchID: 121776

SampleID **LCS-121776**	TestCode: **8260gas_s**	Units: **mg/kg**	Prep Date: **6/2/2016**
Batch ID: **121776**	TestNo: **SW8260B**	Run ID: **GC18_160608C**	Analysis Date: **6/4/2016**

Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
VOC (C6-C12)	3.67	0.25	3.2	0	115	74 - 142				
Surrogate Recovery										
Dibromofluoromethane	0.108		0.125		87	70 - 130				
Benzene-D6	0.108		0.1		108	60 - 140				

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

CDPH ELAP 1644 ♦ NELAP 4033ORELAP

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1606117 **ClientCode: SCSD**

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Alex Tuveson
SCS Engineers
7041 Koll Center Parkway, Suite 135
Pleasanton, CA 94566
(925) 426-0080 FAX: (925) 426-0707

Email: atuveson@scsengineers.com; mgrisham@
cc/3rd Party:
PO:
ProjectNo: 01215172.04; Scientology

Bill to:
Accounts Payable
SCS Engineers
7041 Koll Center Parkway, Suite 135
Pleasanton, CA 94566
MGrisham@SCSEngineers.com

Requested TAT: **5 days;**

Date Received: **06/02/2016**
Date Logged: **06/02/2016**

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
1606117-001	Soil	Soil	6/1/2016	☐	A	A	A									

Test Legend:

1	8260B_S	2	8260GAS_S	3	PREDF REPORT	4	
5		6		7		8	
9		10		11		12	

Prepared by: Briana Cutino

The following SampID: 001A contains testgroup.

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: SCS ENGINEERS
Project: 01215172.04; Scientology
Comments:

QC Level: LEVEL 2
Client Contact: Alex Tuveson
Contact's Email: atuveson@scsengineers.com; mgrisham@scseng.com

Work Order: 1606117
Date Logged: 6/2/2016

☐ 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
1606117-001A	Soil	Soil	TPH(g) & 8260 (Basic List) by P&T GCMS	1		☐	6/1/2016	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.

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1606117

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH ☐ 1 DAY ☐ 2 DAY ☐ 3 DAY ☐ 5 DAY ☒

GeoTracker EDF ☒ PDF ☐ EDD ☐ Write On (DW) ☐ EQuIS ☐ 10 DAY ☐

Effluent Sample Requiring "J" flag ☐ **UST Clean Up Fund Project** ☐ ; **Claim #**_____

Report To: ALEX JOVESON **Bill To:**

Company: SCS ENGINEERS

Tele: ( ) **E-Mail:**

Project #: 01215172.04 **Project Name:** SCIENTOLOGY

Project Location: MTN VIEW **Purchase Order#**

Sampler Signature:

SAMPLE ID	Location/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	MATRIX: Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	METHOD PRESERVED: HCL	HNO_3	Other
SOIL		6/1/16		1					X						

Analysis Request

BTEX & TPH as Gas (8021/ 8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ; Aroclors only	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)***	LUFT 5 Metals (200.8 / 6020)***	Metals (200.8 / 6020)***	Lab to Filter sample for Dissolved metals analysis	TPH GAS & VOCs 8260
															X

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

*** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.

Relinquished By:	Date:	Time:	Received By:
	6/2/16	1200	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t°_____ **COMMENTS:**

GOOD CONDITION_____

HEAD SPACE ABSENT_____

DECHLORINATED IN LAB_____

APPROPRIATE CONTAINERS_____

PRESERVED IN LAB_____

VOAS O&G METALS OTHER HAZARDOUS:

PRESERVATION_____ pH<2_____

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Sample Receipt Checklist

Client Name:	**SCS Engineers**	Date and Time Received:	**6/2/2016 12:00**
Project Name:	**01215172.04; Scientology**	Date Logged:	**6/2/2016**
WorkOrder №:	**1606117** Matrix: Soil	Received by:	Jena Alfaro
Carrier:	Client Drop-In	Logged by:	Briana Cutino

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	☐	
Sample/Temp Blank temperature	Temp: 3°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:

County of Santa Clara
Department of Environmental Health

Hazardous Materials Compliance Division
Site Mitigation Program
1555 Berger Drive, Suite 300
San Jose, CA 95112-2716
(408)918-3400 FAX (408)280-6479

December 16, 2016

SENT VIA ELECTRONIC MAIL ONLY

Ms. Kay Hamilton
Church of Scientology of Mountain View
(KayHamilton@mailpac.net)

Subject: Voluntary Cleanup Program: Church of Scientology of Mountain View
1066 & 1080 Linda Vista Ave., Mountain View, CA
Case No. 06S2W15M05s

Dear Ms. Hamilton:

The Department of Environmental Health (DEH) has reviewed the *Limited Phase II Grab Groundwater Sampling Activities and Conceptual Site Model* (The Report) submitted by SCS Engineers. Based on the results of the recent sampling activities documented in The Report and the understanding of the Conceptual Site Model, the DEH has determined that no further action is required at this time while the case is prepared for closure.

The Report documents groundwater contamination beneath the properties that appears to be related to an off-site chlorinated solvent release. Both tetracholoroethene (PCE) and trichloroethene (TCE) was reported in groundwater above environmental screening levels, however the soil vapor and indoor air data collected to date indicate that vapor intrusion is not occurring at the site. Should construction or site development activities penetrate the current building foundation, the appropriate steps should be taken to repair the foundation in such a way that it does not allow vapors from the subsurface into the building.

If you have any questions, please feel free to contact me at (408) 918-1954 or via email.

Sincerely,

Digitally signed by Aaron Costa
DN: cn=Aaron Costa, o=Santa Clara County Department of Environmental Health, ou=Site Mitigation Program, email=aaron.costa@cep.sccgov.org, c=US
Date: 2016.12.16 12:49:50 -08'00'

Aaron Costa
Senior Hazardous Materials Specialist
Site Mitigation Program
Aaron.costa@deh.sccgov.org

Board of Supervisors: Cindy Chavez, Mike Wasserman, Dave Cortese, Ken Yeager, S. Joseph Simitian
County Executive: Jeffrey V. Smith

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File – GeoTracker

September 18, 2018

Travis Flora
Hazardous Materials Specialist II
Santa Clara County Department of Environmental Health
1555 Berger Drive, Suite 300
San Jose, CA 95112-2716

Subject: **TRANSMITTAL LETTER & CERTIFICATION STATEMENT**

Location: **Former Telewave Property – 1155 Terra Bella Avenue, Mountain View, CA**

SCCo Case No.: **2018-23s (GeoTracker ID: T10000011881)**

Date of Report	Title of Report
September 18, 2018	***Work Plan for Additional Site Assessment***

As the legally authorized representative for the responsible party, I certify the following statement to satisfy regulatory requirements for technical report submittals:

- ***I declare, under penalty of perjury, that the information and/or recommendations contained in the attached proposal or report is true and correct to the best of my knowledge.***

Sincerely,

Sean Corrigan — **Date** 10/1/18

Old Trace Partners, LLC
c/o: Sean Corrigan
419 S San Antonio Rd., Suite 212
Los Altos, CA 94022

WEBER, HAYES & ASSOCIATES
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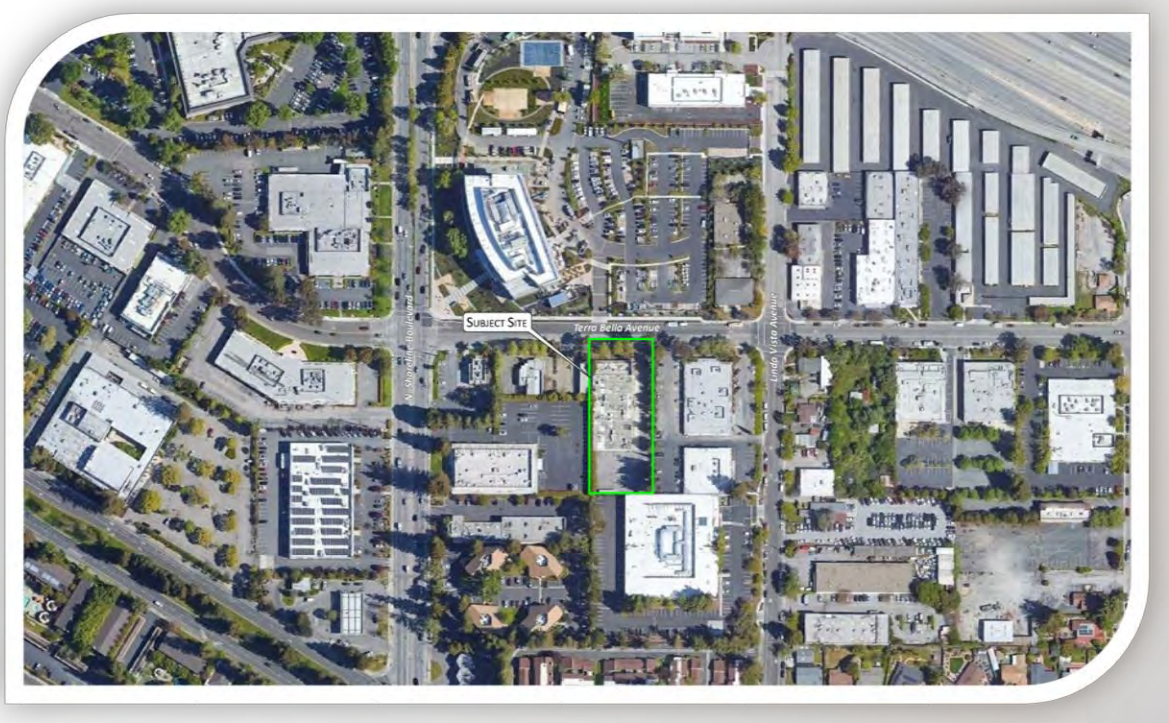
WORK PLAN FOR ADDITIONAL SITE ASSESSMENT

FORMER TELEWAVE PROPERTY



SITE:
FORMER TELEWAVE PROPERTY
1155 TERRA BELLA AVENUE
MOUNTAIN VIEW, CA

SCCo Case No.: 2018-23s

GeoTracker I.D.: T10000011811

PROJECT #: 2X834

SEPTEMBER 18, 2018

Prepared for Submittal to:
COUNTY OF SANTA CLARA
DEPARTMENT OF
ENVIRONMENTAL HEALTH

Attn: Travis Flora
1555 Berger Drive, Suite 300
San Jose, CA 95112-2716

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1.0 EXECUTIVE SUMMARY

The following *Work Plan for Additional Site Assessment* (*Work Plan*) describes additional soil, soil vapor and groundwater investigation tasks designed to further characterize previously confirmed chemical impacts to the subsurface [i.e., chlorinated solvents - trichloroethylene (TCE) and associated degradation daughter products] that was discovered at the Former Telewave Property (1155 Terrabella Avenue, Mountain View, CA – see Figure 1) during a previously completed *Phase II Environmental Site Assessment*[1]. Two (2) separate parties that were interviewed during previous Phase I research had independently confirmed knowledge of an underground chemical storage tank (UST), that was removed from the site without permit sometime during the previous decade. Elevated concentrations of chlorinated solvents detected in soil and groundwater beneath the location of the reported chemical UST suggest that it is the likely source of the release.

Old Trace Partners, LLC (the current property owner and responsible party) have recently entered in to Santa Clara County Department of Environmental Health's (SCCDEH) Voluntary Cleanup Program (VCP), which allows the SCCDEH to assume lead regulatory oversight for site characterization and remediation activities and certify that site cleanup goals have been met. The owner, who purchased the property in late 2016, has plans to redevelop the site for residential use. The existing, on-site commercial building is currently vacant, and the owner has no plans to lease the space prior to redevelopment. We note that the building will need to be razed to facilitate the majority of investigation tasks described in this *Work Plan,* including subsequent primary source removal tasks, as proposed investigation locations situated within the building footprint cannot currently be accessed with the necessary drilling equipment.

The proposed additional soil, soil vapor and groundwater investigation tasks described in this *Work Plan* will be completed with the goal of generating a *Conceptual Site Model* that will be used to identify potential data gaps and evaluate remediation and/or mitigation approaches to move the site towards regulatory case closure for the proposed transition to residential use. Specifically, the proposed scope of work includes:

"Source Area" Soil Characterization (see Figure 6)

Investigate the area at, and around the immediate vicinity of the former chemical UST to determine the vertical and lateral extent of soil impacts. This proposed, two-part investigation will first involve advancing at least four (4) cone penetrometer test / membrane interface probe (CPT/MIP) borings to qualitatively gauge the point source location and extent of soil impacts, followed by the collection and laboratory analysis of discrete soil samples to quantify the magnitude and extent of soil impacts beneath the site. The goal of this investigation is to gauge potential soil source removal efforts and/or other potential soil remediation alternatives.

Preliminary Evaluation of Persistent Pesticides in Shallow Soil (see Figure 6)

Because the site was historically used to grow orchard crops (i.e., circa 1950s through the mid-1960s), there is a potential for residual, persistent pesticides to be present in shallow soils at concentrations that may pose a heath risk if encountered; therefore, in order to facilitate the proposed residential land use transition and provide clearance for this *Recognized Environmental Condition* we propose to conduct a standard of care sampling and laboratory analysis of first encountered native soils beneath site to determine whether persistent pesticides are present at levels that may exceed risk based thresholds.

Soil Vapor Characterization (see Figure 7)

Obtain additional data on the extent of shallow soil vapor concentrations via the installation of three (3) dual depth soil vapor wells (approximately 5 and 12 feet bgs) near, and downgradient of the apparent chemical UST source. One (1) soil vapor well is also proposed for installation at the southern property line, adjacent to a former off-site hazardous waste sump to provide data on the potential presence of an off-site solvent source.

Ambient Indoor Air Sampling (see Figure 7)

While the existing building remains unoccupied and will be razed to facilitate proposed residential development, we propose collecting two (2) ambient indoor air samples (24-hour sampling period). We acknowledge that the samples may not be representative of indoor air quality for future buildings due to

[1] Weber, Hayes & Associates: *Phase I/II Environmental Site Assessment, Telewave Property*, dated November 15, 2016.

likely differences in building size, foundation construction and heating, ventilation and air conditioning (HVAC) configurations. However, it is our opinion that the data will be useful in providing some information as to whether the subsurface soil gas to indoor air pathway is complete.

Additional Groundwater Characterization (see Figure 8)

We propose a phased approach to further characterize impacts to groundwater which include:

1. Advancing a CPT sounding to depths of approximately 70 to 80 feet bgs (or deeper if possible and necessary) on the north side of Terra Bella Avenue (off-site, downgradient) to determine if a third water bearing zone (C-Zone) occurs at these deeper, unexplored depths, and if confirmed obtain a grab groundwater sample for laboratory analysis to determine if impacts have migrated to the deeper water bearing zone.

2. Advancing a transect of three (3) off-site, downgradient borings on the north side of Terra Bella Avenue for the collection of grab groundwater samples from the previously identified shallow, A-Zone (i.e., ~15-30 feet bgs) and deeper, B-Zone (i.e., ~40-50 feet bgs) to determine the extent of downgradient, off-site impacts in these water bearing zones.

3. Install four (4) paired groundwater monitoring wells to obtain seasonal data on solvent concentrations and groundwater gradient in the A- and B-Zones. The proposed wells will be positioned near, and downgradient of the apparent chemical UST source. One (1) paired well is also proposed for installation at the southern property line, adjacent to an off-site, former hazardous waste sump to provide data on the potential presence of an off-site solvent source. In addition to these proposed well pairs, based on the results of grab groundwater sample analytical data obtained from the downgradient, off-site boring transect described above, we will make appropriate recommendations to Santa Clara County Department of Environmental Health (SCCDEH) for including the installation of an off-site well pair to monitor the downgradient extent of the potential off-site impacts.

We also propose completing a half mile radius well search to locate any nearby water supply wells that could potentially be impacted by the release.

2.0 SITE DESCRIPTION AND BACKGROUND

2.1 SITE SETTING & BACKGROUND

The approximate 0.85 acre subject property (the "site") consists of a single, parcel at 1155 Terra Bella Avenue, in Mountain View, California, and is situated in mixed commercial and residential area. The current Site layout has been the same since at least the mid-1960s.

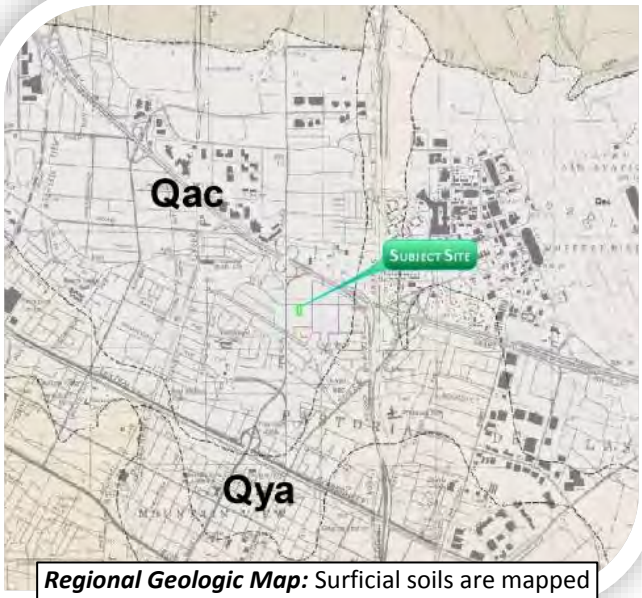
- *Santa Clara County Assessor's Parcel Number (APN):* 153-160-12.
- The property spans a total area of approximately 36,810-ft^2.
- There is a large, commercial warehouse structure on-site along with a smaller storage shed.

The earliest available records (from aerial images dating back to 1939) show the subject Site was largely undeveloped through at least 1950. Agricultural land use (i.e., orchards) were first observed in 1956, and continued until sometime before 1968. The existing site structure and property layout was first observed in 1968, and the layout has remained unchanged thought the current day. The most recent manufacturing operations included the fabrication of radio equipment (Telewave) from the early 1980s through 2008, when operations were moved to a new facility in San Jose. Manufacturing operations included working of raw metals using acid etching, painting, assembly and shipping. Between 2008 and 2016, the site was used for storage and a portion of the building leased to a dog day-care business (Doggie-Ville). The property was acquired by the current owner in late 2016 and has remained unoccupied since that time. The current owner is planning to transition the site to residential.

The adjoining parcels are commercial-industrial, and the surrounding areas contain a mixture of commercial and residential land use (see *Vicinity Aerial Map,* Figure 2). Many of the industrial businesses that operate in this area of Mountain View are involved in the production of electronic and computer components, which often involves the bulk chemical storage and use.

2.2 GEOLOGICAL & HYDROGEOLOGICAL CONDITIONS

Regional geologic maps and reports indicate that surface soils underlying site and the vicinity area generally consist of Holocene-aged surficial sediments consisting of silty clay and organic clay ('Qac', see *regional geologic map*[2], right). This formation generally represents intra-fan areas. To the south and east of the site, there are other surficial sediment formations that consist of alluvial sand, fine-grained silt, and clay (Qya) and area typically associated with the outer edges of depositional fans.



Regional Geologic Map: Surficial soils are mapped as unconsolidated alluvial deposits (Qac) that consist primarily of silty clay, and clays.

Groundwater depth and flow data was gathered from a nearby monitoring network of twelve (12) wells. A quarterly groundwater monitoring report[3] for this nearby leaking underground storage tank site (a Texaco gas station on Shoreline Blvd) indicated shallow groundwater flows in a northernly direction and has a depth to groundwater of around 17 to 24 feet below ground surface (bgs).

As described in the subsection below, a Phase I/II Environmental Site Assessment (ESA) was complete for the site during the summer of 2016, which included the installation of a number of continuously cored soil borings to depths up to 50 feet below the ground surface (bgs). Geologic logs constructed for these borings are included as Appendix A for reference. Generalized observations of on-site subsurface lithology include:

- Lower permeability silts and silty clays are encountered below surface improvements to depths of approximately 11 to 12 feet bgs.

---

[2] *Geologic Map of Santa Clara County, California*, Dibble T.W., dated 2007.

[3] Stantec Consulting Corp, *1st quarter 2010 Semi-Annual Groundwater Monitoring Report, Former Texaco Service Station, dated April 30, 2010*

- Moderate permeability clayey sands to silty sands extend to depths of approximately 24 to 26 feet bgs.
    - **Shallow Groundwater (A-Zone):** Relatively thin water bearing zones (ranging from approximately 0.5 feet to 4.5 feet in thickness) are encountered between depths of approximately 12 and 26 feet bgs within localized sand or gravel lenses. Exception: one boring (DGW-4 encounter a saturated zone between approximately 34 to 37 feet bgs)
- Lithology below depths of approximately 26 feet bgs to depths of approximately 41 feet bgs is somewhat variable ranging from lower permeability silty clays to moderate permeability silty sands and clayey sands.
- **Deeper Groundwater (B-Zone):** a second, deeper water bearing zone was encountered within a well graded gravel deposit at depths below approximately 41 feet bgs, which extends to depths of at least 50 feet bgs.

2.3 PHASE I/II ENVIRONMENTAL SITE ASSESSMENT

A Phase I/II ESA was completed for the property in 2016[4]. The following subsections provide a brief synopsis of the investigation findings.

2.3.1.1 Summary of Phase I Research

A Site inspection, review of local, state and federal regulatory records, and communications with persons knowledgeable about the Site identified two (2) on-site, ***Recognized Environmental Conditions[5],*** which are summarized below.

- Reported Presence of Former Underground Chemical Storage Tank (UST): Interviews with two (2) separate parties have independently confirmed knowledge of an underground chemical storage tank (UST), that was removed sometime during the previous decade. It is likely that the

[4] Weber, Hayes & Associates: *Phase I/II Environmental Site Assessment, Telewave Property*, dated November 15, 2016.

[5] **'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. De minimis conditions are not recognized environmental conditions.

suspected underground chemical storage tank was used to store chemicals such as virgin/waste solvents, as suggested in a User Questionnaire. Should a leak have been the reason for its unpermitted removal, there is a strong potential for it to negatively impact the quality of soils and/or groundwater beneath the Site.

- Long-Term Manufacturing: The on-site facility maintained manufacturing operations for over 40 years that reportedly include the manufacture of radio equipment (Telewave) and some sort of computer chip/circuit board fabrication (Circo, Inc). Due to the lack of reviewable records regarding chemical use, storage and disposal, it is not clear how chemicals and wastes were maintained.

  In addition, **one (1) *de minimis* condition**[6] was also identified at the Site.

- Historical Agricultural Land Use (Orchards): Historic aerial photos indicate the property was used for agriculture purposes during the 1950s and early 1960s. Historical agricultural operations in California are documented to include the use of persistent pesticides, which can persist in the environment and create an unacceptable health risk for certain land use scenarios (e.g., residential). However, at the time the ESA was conducted, land use for the subject Site was intended to stay as commercial and encapsulated with paved surfaces, and the potential ingestion/inhalation impacts were considered a *de minimis* condition. **It was recommended that pesticides screening in shallow soils be completed should land use transition to residential.**

  Our review of local, state and federal regulatory records **identified one (1) Recognized Environmental Condition** near the Site, which is described below**.**

- Potential Offsite Contaminant Migration onto the Subject Site: Building records obtained from the City of Mountain View for an adjoining, upgradient property, showed that a manufacturing sump was removed from that property in 1986.[7] Due to the nature of the sump, two closure soil

[6] **De minimis Condition:** a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis conditions are not recognized environmental conditions nor controlled recognized environmental conditions.

[7]: Harris Corp, *Underground Tank Removal Permit Application*, 960 Linda Vista Drive, Mountain View, dated 4/1/1986.

samples were required and analyzed for metals and solvent compounds. The results contained detections of both PCE and TCE indicating some leakage into underlying-soils. However, no further actions were documented.

In addition, there are two other significant and well-defined chlorinated solvent releases (TCE and PCE) that are being actively remediated 2 blocks west of the subject Site (Teledyne and Spectra-Physics plumes). The subject Site is not situated within the lateral limits of the well-defined, groundwater plumes of those two releases. However, two closer properties (located northwest of the subject Site) detected soil vapor contaminants (TCE and PCE) that are attributed, in part, to the Teledyne solvent release, despite not being in direct path of that release plume.

Opinion: The upgradient release of solvents along the adjoining southern property line (upgradient), as documented in 1986 sump closure sampling documents, has the potential to migrate into shallow groundwater beneath the Site, and is considered a ***Recognized Environmental Condition.***

In addition, a *Vapor Encroachment Condition* (VEC) review, indicates there is some potential for vapor encroachment from both: 1) the documented release at the upgradient, property line sump; and 2) the vicinity solvent releases at the Teledyne/Spectra-Physics properties. This potential for vapor (soil gas) encroachment is considered ***Recognized Environmental Condition***.

2.3.1.2 Summary of Phase II Soil and Groundwater Sampling

A completed soil, soil vapor and groundwater sampling and laboratory-testing program was designed to address the *Recognized Environmental Conditions* identified as an outcome of the collected Phase I research described above. The soil, soil vapor and groundwater sampling program targeted areas of concern (infrastructure, chemical storage, etc.). Fieldwork and results are summarized below:

- **Shallow Groundwater Sampling (see Figure 3, Table 1):** On August 10, 2016, first encountered groundwater samples were collected from across the property as a preliminary gauge of site wide, environmental quality. Initially, first encountered groundwater samples were collected and laboratory-tested from eight (8) boring locations that extended to depths of 32 to 36 feet bgs, including three (3) upgradient soil core locations (GW-5, -7, and -8), three (3) mid-property locations (GW-3, -4, and -6), two (2) downgradient property line locations (GW-1, and -2).

All grab groundwater samples were submitted to a State-certified laboratory and analyzed for, *Volatile Organic Solvent Compounds* (VOCs, full list, by EPA Method 8260B) *and Fuel Fingerprint* (includes diesel, gasoline, motor oil), by LUFT/8015B for two locations (GW-1 & GW-4 only).

Results of groundwater analysis confirmed that there is a source of solvent (TCE) contamination centered beneath the suspected, historic chemical UST location. Specifically, a relatively high solvent concentration of TCE (6,600 µg/L, or parts per billion) was detected in first encountered groundwater beneath the tank (GW-4), while concentrations dropped off by two orders of magnitude within 80 feet from the source (GW-6 TCE @ 36 µg/L). An isocontour concentration map of the TCE in the shallow groundwater zone is presented as Figure 3.

- **Deeper Groundwater Sampling (see Figure 4, Table 1):** Due to the impacts in the shallow water bearing zone (discussed above), a follow-up drilling mobilization was completed on September 15 and 16, 2016 in order to evaluate potential impacts to the next (deeper) water-bearing zone, documented to be encountered at approximately depths of 40 feet bgs at nearby chemical release investigation sites[8]. Five (5), deeper groundwater sample (DGW) locations were positioned at upgradient, mid-property, and downgradient locations and grab groundwater samples were collected and submitted to a State-certified laboratory for VOC solvent analysis, specifically one (1) at the upgradient property line (DGW-5), three (3) exploratory borings at mid-property locations (DGW-4, DGW-3, and DGW-2), and one (1) borings at the downgradient property line (DGW-1).

  Results of deeper groundwater analysis confirm that concentrations of solvent VOCs significantly decrease with depth (see Figure 4 and Table 1). As shown on the isocontour map of TCE concentrations in the deeper water bearing zone (Figure 4):

  - The maximum TCE concentrations were again detected beneath the suspected UST source (360 µg/L, at DGW-3), which is more than an order of magnitude decrease in concentration relative to the max concentrations detected in the shallow zone (i.e., 6,600 µg/L in shallow grab sample GW-4; and

[8]: USEPA and Regional Water Quality Control Board, Solvent Release Case, Teledyne Semiconductor (SL721281224, 1300 Terra Bella Ave), and the Spectra Physics Lasers Property (SL721201221, 1250 West Middlefield Road), Mountain View:
- http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=SL721281224

- The dissolved TCE plume appears limited laterally to approximately 110 feet from the suspected source location (the UST).
- However, cis-1,2-DCE, a degradation "daughter product" of TCE, was detected at elevated concentrations at the downgradient sample location (48 µg/L, DGW-1) that exceed its MCL of 6 µg/L. This elevated detection of cis-1,2-DCE suggests natural attenuation of the plume is occurring and the release is limited.

- **Soil Sampling (see Figure 5, Table 3):** Twelve (12) soil samples were collected from depths of approximately 4 to 32 feet bgs at continuously-cored borings DP-3 and DP-4 and submitted for laboratory analysis in order to vertically profile the soils in the vicinity of the former UST. In addition, and as per soil vapor sampling protocols, additional soil samples obtained from a depth of 5 feet bgs at two soil vapor sample locations (SV-1 and SV-2), where vapor sampling was not possible due to low-permeability soils (i.e., high vacuum conditions – see discussion below). The soil samples were submitted to a State-certified laboratory and analyzed for the following:
  - *Volatile Organic (solvent) Compounds* (VOCs) by EPA Method 8260B [all samples]
  - *Fuel Fingerprint* by LUFT/8015B (includes diesel, gasoline, motor oil) [DP-4 only at depths 24, 27 and 31 feet]
  - *Metals* by EPA Method 6010B [DP-4]

  The laboratory results confirmed field observations: elevated concentrations of TCE, and to a much lesser extent cis, 1-2 DCE, were limited to soils beneath the suspected source location (i.e., DP-4), where strong solvent odors were observed in the soil core at depths of 31 feet bgs. Contaminant solvent concentration in all other soil samples contained concentrations below risk-based agency thresholds (*Environmental Screening Levels,* ESLs)[9].

- http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=SL721201221

[9]: **Environmental Screening Levels** (ESLs): from *User's Guide: Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater,* set by the San Francisco Bay Regional Water Quality Control Board (updated May 2016). The ESLs are intended to provide quantitative risk-based guidance on whether further assessment or remediation of contamination is warranted.

TPH was not detected in soil samples collected at boring DP-4, with the exception of a trace concentration of TPH-diesel detected at 24 feet bgs.

Vertical soil profiling during the second deeper coring mobilization included the collection of soil samples from continuously cored boring DGW-4, situated approximately 20 feet upgradient of the reported UST. Field observations did not note any obvious soil impacts in this boring which was confirmed by laboratory analysis that revealed a single, relatively low-level concentration of cis-1,2-DCE at 32 feet bgs (water bearing soil zone) that marginally exceeded its commercial ESL.

- **Soil Vapor Sampling (see Figure 6, Table 4):** Three (3) temporary, soil vapor-sampling points were installed at the suspected UST location (SV-3), and at two locations along the sanitary sewer lateral (SV-1 and SV-2) where facility process waters were historically discharged. SV-3 was installed in permeable backfill material at the reported UST location and a soil gas sample was easily obtainable. Native soils at the two other soil vapor points (SV-1 and SV-2) consisted of low-permeability silts and clays where *no flow conditions* were encountered during sampling (i.e., high vacuum in the low permeability silts/clays where "stripping" could potentially create a biased high result). As per State DTSC sampling protocols, since soil gas samples could not be obtained due to no flow conditions, a soil sample from the intended soil vapor sample depth (i.e., 5 feet bgs) was laboratory tested to evaluate for the potential presence of solvent VOCs in the low permeability soils.

  The UST backfill vapor sample SV-3, the only soil gas sample obtained due to native soil no-flow conditions, was submitted to a State-certified laboratory and analyzed for *Volatile Organic Compounds* (VOCs) by EPA Method TO-15. Results of laboratory analysis confirmed an elevated concentration **of TCE vapor in the preamble backfill material (25,000 µg/m^3) that exceeds its commercial ESL threshold of 3,000 µg/m^3. In addition, there is an elevated detection of TPH-gasoline but no detections of gasoline's volatile constituent compounds, which suggests "aged-gas".** This may suggest the former UST contained gasoline at one time.

- http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/ESL/ESL%20Workbook_ESLs_Interim%20Final_22Feb16_Rev3_PDF.pdf >

The soil vapor sampling results, including the no flow conditions in native soils, suggests that soil vapor intrusion concerns could be limited to the tank backfill footprint.

3.0 SCOPE OF PROPOSED WORK

This *Work Plan for Additional Site Assessment* (*ASA*) describes additional soil, soil vapor and groundwater investigation tasks designed to further characterize previously confirmed chemical impacts to the subsurface with the goal of generating a *Conceptual Site Model* that will be used to identify potential data gaps and evaluate remediation and/or mitigation approaches to move the site towards regulatory case closure for the proposed transition to residential use. Specifically, the proposed scope of work includes:

"Source Area" Soil Characterization

Investigate the area at, and around the immediate vicinity of the former chemical UST and sanitary sewer lateral to determine the vertical and lateral extent of soil impacts. This proposed, two-part investigation will first involve advancing at least four (4) cone penetrometer test / membrane interface probe (CPT / MIP) borings to qualitatively gauge the extent of soil impacts followed by the collection and laboratory analysis of discrete soil samples to quantify the magnitude and extent of soil impacts beneath the site. The goal of this investigation is to gauge potential soil source removal efforts and/or other potential soil remediation alternatives.

Preliminary Evaluation of Persistent Pesticides in Shallow Soil

Because the site was historically used to grow orchard crops (i.e., circa 1950s through the mid-1960s), there is a potential for residual, persistent pesticides to be present in shallow soils at concentrations that may pose a heath risk if encountered; therefore, in order to facilitate the proposed residential land use transition and provide clearance for this *Recognized Environmental Condition* we propose to conduct a standard of care sampling and laboratory analysis of first encountered native soils beneath site to determine whether persistent pesticides are present at levels that may exceed risk based thresholds.

Soil Vapor Characterization

Obtain additional data on the extent of shallow soil vapor concentrations via the installation of three (3) dual depth soil vapor wells (approximately 5 and 12 feet bgs) near, and downgradient of the apparent

chemical UST source. One (1) soil vapor well is also proposed for installation at the southern property line, adjacent to a former hazardous waste sump to provide data on the potential presence of an off-site solvent source.

Ambient Indoor Air Sampling

While the existing building remains unoccupied and will be razed to facilitate proposed residential development, we propose collecting two (2) ambient indoor air samples (24-hour sampling period) to provide an additional line of evidence on whether vapor intrusion may be risk.

Additional Groundwater Characterization

We propose a phased approach to further characterizing impacts to groundwater which include:

1. Advancing a CPT sounding to depths of approximately 70 to 80 feet bgs on the north side of Terra Bella Avenue (off-site, downgradient) to determine if a third water bearing zone (C-Zone) occurs at these deeper, unexplored depths, and if confirmed obtain a grab groundwater sample for laboratory analysis to determine if impacts have migrated to the deeper water bearing zone.
2. Advancing a transect of three (3) off-site, downgradient borings on the north side of Terra Bella Avenue for the collection of grab groundwater samples from the previously identified shallow, A-Zone (i.e., ~15-30 feet bgs) and deeper, B-Zone (i.e., ~40-50 feet bgs) to determine the extent of downgradient, off-site impacts in these water bearing zones.
3. Install four (4) paired groundwater monitoring wells to obtain seasonal data on solvent concentrations and groundwater gradient in the A- and B-Zones. The proposed wells will be positioned near, and downgradient of the apparent chemical UST source. One (1) paired well is also proposed for installation at the southern property line, adjacent to an off-site, former hazardous waste sump to provide data on the potential presence of an off-site solvent source. In addition to these proposed well pairs, based on the results of grab groundwater sample analytical data obtained from the downgradient, off-site boring transect described above, we will make appropriate recommendations to Santa Clara County Department of Environmental Health (SCCDEH) for including the installation of an off-site well pair to monitor the downgradient extent of the potential off-site impacts.

We also propose completing a half mile radius well search to locate any nearby water supply wells that could potentially be affected by the release.

Additional details on the proposed Scope of Work are presented below.

3.1 PRE-FIELDWORK TASKS

In order to access proposed soil boring investigation locations that are situated within the footprint of the existing, vacant building, the building must be razed. As the property owner/responsible party plans to redevelop the property and does not intend to lease the existing building in the interim, removal of the current site improvements is planned pending approval of demolition permits. Building demolition/removal will also be necessary for subsequent primary source removal efforts. A survey will be completed prior to building demolition in order to accurately preserve the location of key site features such as the former chemical UST and sanitary sewer lateral such that they can be subsequently located with accuracy.

Other tasks that will be completed prior to the investigation mobilization will include:

- Obtaining regulatory concurrence and approval of this *Work Plan* from the SCCDEH and providing at least five (5) days notification prior to the start of any fieldwork.
- Preparation of a Site Health & Safety Plan in accordance with State and Federal hazardous waste operations regulations (California Code of Regulations, Title 8, Section 5192 and 29 Code of Federal Regulations 1910.120) (included in Appendix B).
- Procuring a soil boring permit through the Santa Clara Valley Water District for borings that will extend deeper than 45 feet below the ground surface (bgs).
- Procuring monitoring well installation permits through the Santa Clara Valley Water District.
- Procuring encroachment permits through the City of Mountain View Public Works Department for the installation of borings and monitoring wells in the city right of way along Terra Bella Avenue.
- Retaining the appropriate contractors (i.e., drilling, down-hole screening, and traffic control) to complete the field investigation.
- Prior to drilling activities, Underground Service Alert (USA) will be contacted at least 48 hours in advance to identify the location of utilities that enter the property. All proposed boring locations will be clearly marked with white paint as required by USA. USA will contact all utility owners of record within the Site vicinity and notify them of the intent to drill. All utility owners

of record will be expected to clearly mark the position of their utilities on the ground surface throughout the designated area. In addition, a private utility locating firm will be retained to examine the Site with geophysical tools to locate on-Site, privately owned utilities.

3.2 "SOURCE AREA" SOIL CHARACTERIZATION

Soil analytical results from the previous investigation revealed an elevated concentration of TCE at a depth of 31 feet bgs immediately adjacent to the former chemical UST location (boring DP-4; see Figure 5 and Table 2), with only low-level concentrations detected at shallower depths (below residential screening thresholds). Soil borings installed approximately 15 feet north (DGW-4) and 30 feet southeast (DP-3) of boring DP-4 also did not reveal elevated concentrations of VOCs above residential screening thresholds, with the exception of cis-1,2 DCE detected slightly above the residential screening threshed at a depth of 32 feet bgs in boring DGW-4 (see Figure 5, Table 2). **Although near surface soil impacts were not identified during the previous Phase II Investigation, results of grab groundwater samples suggest that that the source of the TCE release originates at the former chemical UST or possibly the adjacent sanitary sewer lateral and associated former sink drain.** In order to locate the point source of the release and obtain data on the vertical and lateral extent of soil impacts we propose completing a two-part investigation that will include:

1. **Initial Mobilization:** Advancing at least four (4) cone penetrometer test / membrane interface probe borings (CPT/MIP-1 through -4; see Figure 6) to depths of approximately 40 feet bgs (i.e., to depths just above B-Zone groundwater) in an attempt to qualitatively identify the location of the point source release and the approximate vertical and lateral extent of soil impacts. The CPT takes measurements of cone bearing, sleeve friction and dynamic pore water pressure at 5-centimeter intervals during penetration to provide a nearly continuous hydrogeologic log. CPT data reduction and interpretation is performed in real time. The MIP is a multipurpose, semi-qualitative tool for real-time mapping of subsurface soil and groundwater contamination, specifically volatile organic compounds (VOCs) such as halogenated solvents / chlorinated VOCs (cVOCs) and petroleum compounds. If review of the real time MIP data indicates that the installation of additional CPT/MIP borings would be beneficial to the investigation (i.e., step-out borings), additional borings may be advanced during the field mobilization.

2. **Follow-up Mobilization:** Based on the results and interpretation of the CPT/MIP screening investigation, we will propose the installation of soil borings for obtaining discrete soil samples

for laboratory analysis to quantitatively determine the magnitude and extent of soil impacts observed in the MIP data. These soil borings will be installed via conventional direct push drilling techniques. **Specific plans for this follow-up soil sampling scope will be communicated via email to SCCDEH staff for their concurrence and approval prior to mobilization.**

All soil borings will be advanced by a licensed C-57 driller under the direct supervision of experienced Weber, Hayes and Associates (WHA) personnel. The CPT and MIP soundings will be performed by an experienced contractor that specializes in this technology. Proposed boring locations are depicted on Figure 2. Fieldwork will follow our standard *Field Methodology for Cone Penetrometer Testing / Membrane Interface Probe (CPT/MIP) Screening*, which is presented in Appendix C. Fieldwork for follow-up soil sampling will follow our standard *Field Methodology for Hydraulic Driven Probes*, which is also presented in Appendix C.

During follow-up soil sampling, the soil cores from each boring will be carefully examined by an experienced WHA field geologist to produce a boring log, using visual observations and a hand-held photoionization detector (PID) meter to screen for VOCs. Collected soil samples selected for laboratory analysis will be immediately preserved in the field by employing EPA Method 5035 field preservation techniques. The soil samples will be submitted to a State-certified laboratory under chain of custody procedures for the following analysis:

- VOCs by EPA Method 8260B

Analytical results will be compared with residential screening thresholds established in the San Francisco Bay Region - Regional Water Quality Control Board's Environmental Screening Levels (ESLs) and the State DTSC Human and Ecological Risk Office (HERO) Human Health Risk Assessment "Note 3" screening values (DTSC Note 3)].

3.3 PRELIMINARY EVALUATION OF PERSISTENT PESTICIDES IN SHALLOW SOIL

Because the site was historically used to grow orchard crops (i.e., circa 1950s through the mid-1960s), there is a potential for residual, persistent pesticides to be present in shallow soils at concentrations that may pose a heath risk for the proposed residential land use transition. In order to provide clearance for potential contaminants we propose completing standard of care sampling and laboratory analysis of first encounter native soils beneath site to determine whether persistent pesticides are

present at levels that may exceed risk-based thresholds. Specifically, the proposed sampling will follow the Department of Toxic Substances Control (DTSC) *Interim Guidance for Sampling Agricultural Properties (Third Revision)*, dated August 7, 2008, which provides an approach for evaluating former agricultural properties where pesticides may have been applied. The guidance recommends collecting and analyzing four (4) discrete samples across areas less than three (3) acres. The approximate site acreage is 0.85 acres. The guidance document recommends collecting surface samples (i.e., first encountered soil beneath extraneous materials such as vegetation or other site coverings such as pavement, imported fill, etc.). Recommended laboratory analysis includes the standard suite of organochlorine pesticides and arsenic.

Based on the guidance provided by DTSC, we propose collecting four (4) discrete shallow soil samples (SP-1 through SP-4) from approximate equidistant locations across the site to provide a relatively even distribution of coverage (see Figure 6). Soil samples will be collected from first encountered native soils (i.e., beneath extraneous material). Deeper, backup samples collected from a depth of 6-9 inches below first encountered native soils and placed on hold at the testing laboratory for potential analysis pending the results of the shallow counterpart sample. Soil sampling will be conducted by WHA personnel in accordance with our standard *Field Methodology for Shallow Soil Sampling*, which is presented in Appendix C. Samples will be submitted to a State-certified laboratory under chain of custody procedures for the following DTSC recommended suite of analysis:

- Organochlorine Pesticides by EPA Method 8081
- Arsenic by EPA Method 6010B

Analytical results will be compared with residential ESLs and DTSC Note 3 values. We note that arsenic has very low toxicological screening threshold, well below typical naturally occurring background concentrations. A 2011 study[10] confirms naturally background concentrations (99th percentile) of arsenic in the San Francisco Bay Region (which includes Santa Clara County in the study area) to be 11 mg/kg. Therefore, we propose evaluating the potential risk of any on-site detections of arsenic with respect to this established naturally occurring background concentration.

[10] Duvergé, 2011: Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region

If results for any sample exceed the established residential screening thresholds or background arsenic concentrations, then we will contact the lab to analysis the deeper counterpart sample and will subsequently provide a plan to SCCDEH to conduct "step-out" soil sampling to define the lateral and vertical extent of residual soil impacts.

3.4 ADDITIONAL SOIL VAPOR CHARACTERIZATION

During the 2016 Phase II ESA, three (3) shallow (5-foot deep) temporary soil vapor wells were installed at: 1) the former chemical UST location (SV-3; in the permeable backfill material), and 2) at two (2) locations along the sanitary sewer lateral (SV-1 and -2; see Figure 5). Results of laboratory analysis confirmed an elevated concentration of TCE vapor in the permeable UST backfill material (25,000 µg/m^3) which significantly exceeds the residential ESL/DTSC Note 3 threshold of 240 µg/m^3. Samples were not obtainable from temporary wells SV-1 and 2 due to no-flow conditions, which is attributed to the low permeability soil (i.e., silt to silty clay) encountered at the 5 foot sample depth.

In order to obtain additional data on the vertical and lateral distribution of shallow soil vapor concentrations, we propose to install three (3) dual depth soil vapor wells (approximately 5 and 12 feet bgs) near, and downgradient of the apparent chemical UST source (V-2 through V-4). The dual depth wells (i.e., sample tubing & filter tip) will be installed within the same borehole. We note that low permeability soils were encountered to depths of approximately 11 feet bgs in all previous on-site borings and acknowledge that it may not be possible to obtain samples from the shallow, 5-foot sample depth. The deeper soil vapor well is intended to sample soil vapor within a more permeable soil encountered below approximately 11-12 feet bgs, but above first groundwater which was routinely encountered in a thin, saturated lens between approximately 12-15 feet bgs (see boring logs; Appendix A). The final depth of the deeper soil vapor well will be determined in the field based on soil core observations. The soil vapor wells are expected to provide reasonable coverage to assess the potential vapor intrusion pathway.

One (1) dual depth soil vapor well (V-1) is also proposed for installation at the southern property line, adjacent to a documented, former hazardous waste sump to provide data on the potential presence of an off-site solvent source. Proposed soil vapor well locations are shown on Figure 7.

We will contract with a licensed C-57 driller to install the proposed permanent soil vapor wells. Installation and subsequent sampling will follow our *Field Methodology for Active Soil Gas Sampling*, which is in general accordance with protocols established in DTSC's 2015 *Advisory for Active Soil Gas*

Investigations, and is presented in Appendix C. Collected samples will be submitted to a State-certified laboratory under chain of custody procedures for the following analysis:

- VOCs by EPA Method TO-15

Analytical results will be compared with residential ESLs and the DTSC Note 3 values.

3.5 AMBIENT INDOOR AIR EVALUATION

While the existing building remains unoccupied and will be razed to facilitate proposed residential development, we propose collecting two (2) ambient indoor air samples (IA-1 and IA-2) to provide some insight as to whether vapor intrusion is currently occurring. We acknowledge that the samples may not be representative of indoor air quality for future buildings due to likely differences in building size, foundation construction and heating, ventilation and air conditioning (HVAC) configurations. However, it is our opinion that the data will be useful in providing some information as to whether the subsurface soil gas to indoor air pathway is complete.

The proposed sample locations will be placed at potential worst-case locations which include a former sink drain adjacent to the former chemical UST (IA-1) and a floor drain within a former wash room situated approximately 60 feet north of the former chemical UST (IA-2), and adjacent to the sewer lateral.

Sampling will follow our *Field Methodology for Ambient Air Sampling*, which is in general accordance with protocols established in DTSC's 2011 *Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance)* and is presented in Appendix C. Per the DTSC guidance, we will complete a limited building survey to document conditions prior to sample collection and document any building inventory that may have the potential to skew the results (e.g., chemicals or materials that may contain VOCs). The DTSC guidance also recommends concurrently sampling outdoor ambient air to provide information regarding outside influences on indoor air quality. However, we do not propose collecting outdoor ambient air samples for two (2) reasons: 1) the building is currently non-operational (i.e., no active HVAC system exchanging indoor / outdoor air), and 2) we are specifically sampling for the presence TCE (and daughter products), which is not a common urban air pollutant.

Collected samples will be submitted to a State-certified laboratory under chain of custody procedures for the following analysis:

- VOCs by EPA Method TO-15 Modified SIM (low level detection limits)

Analytical results will be compared with residential ESLs and the DTSC Note 3 values.

3.6 ADDITIONAL GROUNDWATER CHARACTERIZATION

Results of groundwater sampling and analysis completed during the 2016 Phase II ESA confirmed that there is a source of solvent (TCE) contamination centered beneath the suspected, former chemical UST location. Specifically, a relatively high solvent concentration of TCE (6,600 µg/L, or parts per billion) was detected in first encountered groundwater (i.e., A-Zone encountered between approximately 15-30 feet bgs) beneath the tank (GW-4), while concentrations dropped off by two (2) orders of magnitude within 80 feet from the suspected source (GW-6 TCE @ 36 µg/L), as shown on Figure 3.

Results of follow-up, deeper groundwater sampling and analysis (i.e., B-Zone encountered between approximately 40-50 feet bgs) confirm that concentrations of solvent VOCs significantly decrease with depth (see Figure 4 and Table 1). As shown on the isoconcentration map of TCE concentrations in the deeper water bearing zone (Figure 4), the maximum TCE concentrations were again detected beneath the suspected UST source (360 µg/L, at DGW-3), which is more than an order of magnitude decrease in concentration relative to the max concentrations detected in the shallow zone (i.e., 6,600 µg/L in shallow grab sample GW-4. The dissolved TCE plume appears limited laterally to approximately 110 feet from the suspected source location (the UST).

In order to further characterize groundwater impacts beneath the site, we propose the following phased investigation approach:

3.6.1.1 Initial Mobilization – Downgradient Grab Groundwater Sampling

In order to determine if significant solvent impacts have migrated to an even deeper water bearing zone (i.e., below the B-Zone) we propose advancing a CPT sounding (HP/CPT-2; see Figure 8) to depths of approximately 70 to 80 feet bgs (or deeper if necessary and possible) on the north side of Terra Bella Avenue (off-site, downgradient). If a third water bearing zone (C-Zone) is confirmed at these deeper, unexplored depths, then we will obtain a grab groundwater sample for laboratory analysis to determine if impacts have migrated to the deeper water bearing zone.

During the same mobilization we propose to advance a transect of three (3) off-site, downgradient borings (HP-1 through HP-3) on the north side of Terra Bella Avenue (including HP/CPT-2 described above) for the collection of grab groundwater samples from the previously identified shallow, A-Zone (i.e., ~15-30 feet bgs) and deeper, B-Zone (i.e., ~40-50 feet bgs) to determine the extent of

downgradient, off-site impacts in these water bearing zones. These proposed boring are shown on Figure 8.

We will contract with a licensed C-57 driller to install the proposed soil borings and CPT sounding. Fieldwork will follow our standard *Field Methodology for Cone Penetrometer Testing* and *Hydraulic Driven Probes*, which are presented in Appendix C.

We acknowledge that there is some limited risk in advancing CPT soundings through multiple water bearing zones do to the risk of cross-contaminating deeper water bearing zones once the tools is retracted from the subsurface and the borehole is left open for a brief period of time prior to borehole sealing. However, the proposed deeper CPT sounding (i.e., HP/CPT-2) is being installed at a downgradient location from the site where shallow groundwater impacts are expected to be much less significant based on previously collected on-site data. Furthermore, boring advancement into the deeper B-Zone and possible C-Zone water bearing zones (if encountered) will be conducted in separate boreholes using a disposable PVC "drop-screen" such that following grab groundwater sample collection, the screen section (5-foot length) will be abandoned at the base of the borehole and the borehole can be sealed from the bottom upwards by introducing grout through the drill rods as they are being retracted, thus eliminating vertical migration of groundwater. Additional protocols for sealing boreholes are included in the Appendix C *Field Methodologies*.

Collected samples will be submitted to a State-certified laboratory under chain of custody procedures for the following analysis:

- VOCs by EPA 80260B

Analytical results will be compared with State Maximum Contaminant Levels (MCLs).

3.6.1.2 Subsequent Mobilization – Monitoring Well Installation, Development & Post Development Sampling

We propose to install four (4) paired groundwater monitoring wells to obtain seasonal data on solvent concentrations and groundwater gradient in the A-Zone and B-Zones (MW-1A/B through MW-2A/B; see Figure 8). The proposed wells will be positioned near, and downgradient of the apparent chemical UST source (MW-2A/B, and MW-3A/B and -4A/B, respectively; see Figure 8). One (1) paired well is also proposed for installation at the southern property line, adjacent to a former, off-site hazardous waste sump to provide data on the potential presence of an off-site solvent source (MW-1A/B). In addition to

these proposed well pairs, based on the results of grab groundwater sample analytical data obtained from the downgradient, off-site boring transect (i.e., HP-1 through HP-3), we will make appropriate recommendations to SCCDEH for including the installation of an off-site well pair to monitor the downgradient extent of the potential off-site impacts. **Proposed plans for this additional, downgradient well will be communicated to SCCDEH via email for their review and approval prior to initiating the well installation mobilization.**

3.6.1.3 Proposed Groundwater Monitoring Well Design – A-Zone & B-Zone Wells

As discussed in previous sections of this *Work Plan*, shallow, A-Zone groundwater is generally encountered in relatively thin, saturated lenses between 15 and 30 feet bgs. Deeper, B-Zone groundwater is encountered in a gravelly zone between approximately 40 and 50 feet bgs. Based on these hydrogeologic conditions we proposed the following well construction design:

- Paired A/B-Zone wells will be situated within approximately 5 feet from one another and installed in sperate boreholes
- Total Depth: The total well depth will extend to:
    - A-Zone: 30 feet bgs
    - B-Zone: 50 feet bgs
- Well Material: The wells will be constructed of 2-inch diameter, threaded schedule 40 Polyvinyl Chloride (PVC)
- Wells Screens: The wells screens will consist of 0.01-inch factory slotted schedule 40 PVC installed at the base of the well borehole:
    - A-Zone: 15 to 30 feet bgs
    - B-Zone: 40 to 50 feet bgs
- Filter Pack: The filter pack will consist of #2/12 or #3 sand and extend from the base of the borehole to approximately 2 feet above the screened interval
- Annual Seal: The annular seal will consist of approximately 2 feet of hydrated bentonite above the sand filter pack followed by neat cement grout to approximately 6-inches bgs (i.e., 0.5 to 6 feet bgs).

- Surface Completion: Each well will be secured with an 8- or 12-inch diameter traffic rated monitoring well vault set in concrete. The top of well casing will be secured inside the well vault with a locking well cap.

3.6.1.4 Monitoring Well Installation

Monitoring wells will be installed by a licensed C-57 well drilling contractor with specific experience installing groundwater monitoring wells, in accordance with our *Field Methodology for Monitoring / Remediation Well Installation*, which is included in Appendix C. Well bores will be drilled via a hollow stem auger drill rig equipped with 8-inch diameter hollow stem augers. Wells will be constructed, as described above, through the hollow stem augers.

A limited number of soil samples will be collected from the well bores at the discretion of an experienced WHA field geologist in order to confirm lithology and geologic contacts. Well boreholes will be logged by an experienced geologist using the Unified Soil Classification System (USCS) and be recorded in the field on geologic logs. No soils will be retained for laboratory analysis unless chemical impacts are observed, in which case soil samples will be selected for laboratory analysis to determine the vertical extent of soil impacts. Sample handling and preservation will be conducted in accordance with *Field Methodologies* presented in Appendix C, and samples will be laboratory analyzed for VOCs by EPA Method 8260B.

3.6.1.5 Monitoring Well Development & Post Development Sampling

Well development operations will occur no sooner than 48 hours following well installation in accordance with our *Field Methodology for Well Development and Post Development Sampling*, which is included in Appendix C. Well development will promote good hydraulic communication between the well filter pack and surrounding formation and will remove fines from the filter pack. Prior to development a depth to water measurement will be collected from each well to the nearest hundredth (0.01) of a foot with an electric sounder. After the depth to water is measured, each well will be checked for the presence of dense nonaqueous phase liquid (DNAPL) with an electronic oil/water interface probe. If DNAPL is present, the thickness of the layer will be recorded.

After measuring the depth-to-groundwater, a surge block will be used to physically swab the wells entire screened interval a minimum of 50 strokes in order to remove fines from the sand pack and promote gradation between the surrounding formation and the sand pack. Following well swabbing the well will

be purged with a low flow submersible electric pump until visually free of turbidity. It may be necessary to repeat the well swabbing and purging steps if the turbidity of the discharge water does not decrease during the well purge. During purging the physical parameters of temperature, conductivity, pH, dissolved oxygen (D.O.) concentration, and Oxidation-Reduction Potential (ORP) of the purge water will be monitored with a Flow-Through Cell equipped multi-meter to ensure that these parameters have stabilized. Purging will be determined to be complete (stabilized aquifer conditions reached) after the removal of at least three well casing volumes of water, when the discharge water is observed to be free of turbidity, and when the physical parameters have stabilized.

After purging, the water level in the well will be allowed to recover to approximately 80 percent of its original depth before a sample is collected. After water level recovery, a post-development groundwater sample will be collected from each well with a new, disposable bailer, and decanted into the appropriate laboratory-supplied sample container (i.e., 40 mL VOAs). All samples will be labeled in the field and transported in insulated containers cooled with blue ice to State-certified laboratory under proper chain of custody procedures for the following analysis:

Analytical results will be compared with State MCLs.

3.7 SURVEY

Prior to demolition of exiting site improvements, which will need to occur prior to the installation of borings / wells proposed within the foot print of the existing building, we will retain a California-Licensed Land Survey to complete a survey of key site features that will include the location of the former chemical UST and the sanitary sewer lateral. This survey data will be relied upon for accurately positioning the proposed borings following building demolition.

Following the installation of the proposed soil vapor and groundwater monitoring wells, horizontal and vertical locations (top of well casing elevation) will also be surveyed by California-Licensed Land Survey to satisfy State GeoTracker field point data documentation. The survey data will also be used to calculate groundwater elevations across the groundwater monitoring well network in order to accurately determine groundwater gradient and flow direction.

3.8 INVESTIGATIVE DERIVED WASTE

All investigative derived waste (IDW) generated during subsurface investigation activities, including soil cuttings, decontamination water and purged groundwater will be containerized on site in labeled 55-

gallon drums or other appropriate containers (e.g., soil roll-off bins) and will be subsequently properly disposed of by a licensed waste hauling contractor. Documentation of proper IDW disposal will be provided in the subsequent technical report documenting the related investigation activities.

3.9 HALF MILE RADIUS WELL SEARCH

We propose completing a record search through the Department of Water Resources to locate any potential active groundwater supply wells within a half mile radius of the Site to confirm whether there are any nearby drinking water supply wells that could potentially become impacted by the site release. Any wells identified within the radius search (with the exception of chemical release monitoring wells, cathodic protection wells and/or destroyed wells) will be plotted on a plan view location map and pertinent well construction information (i.e., installation date, total depth and screened interval), use details (i.e., domestic, municipal, irrigation) and distance from the site will be summarized in a spreadsheet which will be incorporated into the subsequent technical report documenting the related investigation activities. Pending the results, we will provide recommendations for sampling off-site wells if appropriate.

3.10 SUMMARY REPORTING

Following the completion of all proposed investigation tasks we will prepare a technical report presenting the investigative methods, figures depicting sample locations and analytical results, grologic cross sections, tabulated analytical results, laboratory analytical reports, a summary of our interpretation of the data, and recommendations for appropriate next steps based on the data. The report will be submitted to SCCDEH for their review and comment. All work will be conducted under the supervision of a California Registered Professional Geologist.

Concurrently, we will prepare a *Conceptual Site Model* (CSM) that will incorporate all investigative data obtained during the previous Phase II ESA and results of the currently proposed investigative tasks. The CSM is a progressive assemblage of information regarding the distribution of chemicals of concern and the hydrologic setting of the site. The CSM describes the regional and local geology and hydrogeology, surrounding land use, sensitive receptors, conduits, preferential pathways, and the likely distribution of chemicals of concern and any other factors relevant to the release. The CSM serves as the framework for the investigation, remediation and ultimately the closure of the chemical release site. The CSM is

dynamic and is continually updated as more information is gathered. Subsequent investigations provide data to accurately define the conditions at the site and close data gaps.

4.0 SCHEDULE

Following regulatory approval of this *Work Plan* we will begin procuring the necessary permits (i.e., soil borings and city encroachment). Following permit approval, we will contact SCCDEH with a proposed schedule. As described in this *Work Plan*, the site building will need to be razed prior to installing proposed boring as the necessary drilling equipment will not be able to access the locations within the footprint of the building. The time-frame for the property owner to obtain demolition permits and complete site demolition activities is uncertain. Therefore, some investigation activities will need to be scheduled with the SCCDEH following site demolition. However, prior to building demolition/removal the proposed ambient indoor air sampling will be completed and can be scheduled soon after *Work Plan* approval. The following provides a possible sequencing of the proposed assessment tasks:

Before Site Improvements are Removed

- Complete ambient indoor air sampling (proposed IA-1 & IA-2)
- Complete downgradient, off-site grab groundwater sampling (proposed HP-1, HP/CPT-2 & HP-3)

After Site Improvements are Removed (time-frame currently uncertain)

- Complete source zone investigation (proposed CPT/MIP-1 through -4) and subsequent direct push soil sampling based on results of the CPT/MIP investigationComplete shallow soil sampling for persistent pesticides clearance (proposed SP-1 through -4)
- Complete the installation and initial sampling of dual depth soil vapor monitoring wells (proposed V-1 through V-4) and paired A/B-Zone groundwater monitoring wells (proposed MW-1A/B through -4A/B, including the likely recommendation and approval of an additional off-site, downgradient well pair pending results of off-site grab groundwater samples collected from proposed HP-1 through HP-3).

A technical report documenting all completed tasks will be prepared and submitted within sixty (60) days following the completion of all proposed investigative tasks and receipt of all laboratory analytical

results. A CSM will also be concurrently submitted under separate cover within this proposed time-frame.

5.0 LIMITATIONS

Our service consists of professional opinions and recommendations made in accordance with generally accepted geologic and engineering principles and practices. This warranty is in lieu of all others, either express or implied. The analysis and conclusions in this report are based on sampling and testing which are necessarily limited. Additional data from future work may lead to modification of the opinions expressed herein.

All work related to this investigation and remediation at this Site is done under the direct supervision of a Professional Geologist or Engineer, registered in California, and experienced in environmental assessment and remediation.

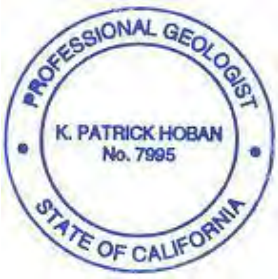
Thank you for the opportunity to participate in the assessment of this site. If you have any questions regarding this report, or any aspect of this project, please contact us at (831) 722-3580.

Sincerely yours,

WEBER, HAYES AND ASSOCIATES

A California Corporation





By: _____ And: _____

Jered Chaney, PG
Project Geologist

Pat Hoban, PG
Senior Geologist

6.0 REFERENCES

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Phase I/II Environmental Site Assessment, Telewave Property, Mountain View, California, Weber, Hayes and Associates, dated November 15, 2016

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REFERENCED CONTINUED:

USEPA and Regional Water Quality Control Board, Solvent Release Case, Teledyne Semiconductor (SL721281224, 1300 Terra Bella Ave), and the Spectra Physics Lasers Property (SL721201221, 1250 West Middlefield Road), Mountain View

FIGURES

FIGURE 1	*Location Map*
FIGURE 2	*Vicinity Map*
FIGURE 3	*A-Zone Grab Groundwater Results – TCE Iso-Concentration Map (~15-30 feet bgs)*
FIGURE 4	*B-Zone Grab Groundwater Results – TCE Iso-Concentration Map (~40-50 feet bgs)*
FIGURE 5	*Soil and Soil Vapor Analytical Results*
FIGURE 6	*Site Map with Proposed Soil Source Zone Investigation Locations & Near Surface Soil Pesticides Clearance Locations*
FIGURE 7	*Site Map with Proposed Soil Vapor Monitoring Wells & Indoor Ambient Air Sample Locations*
FIGURE 8	*Site Map with Proposed Downgradient Grab Groundwater Sample Locations & Proposed A-Zone (Shallow) / B-Zone (Deeper) Paired Monitoring Well locations*



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LOCATION MAP

SITE: FORMER TELEWAVE PROPERTY
ADDRESS: 1155 TERRA BELLA AVE., MOUNTAIN VIEW, CA

DATE: AUG. 2018

REVISIONS/NOTES:

FIGURE 1
Project 2X834

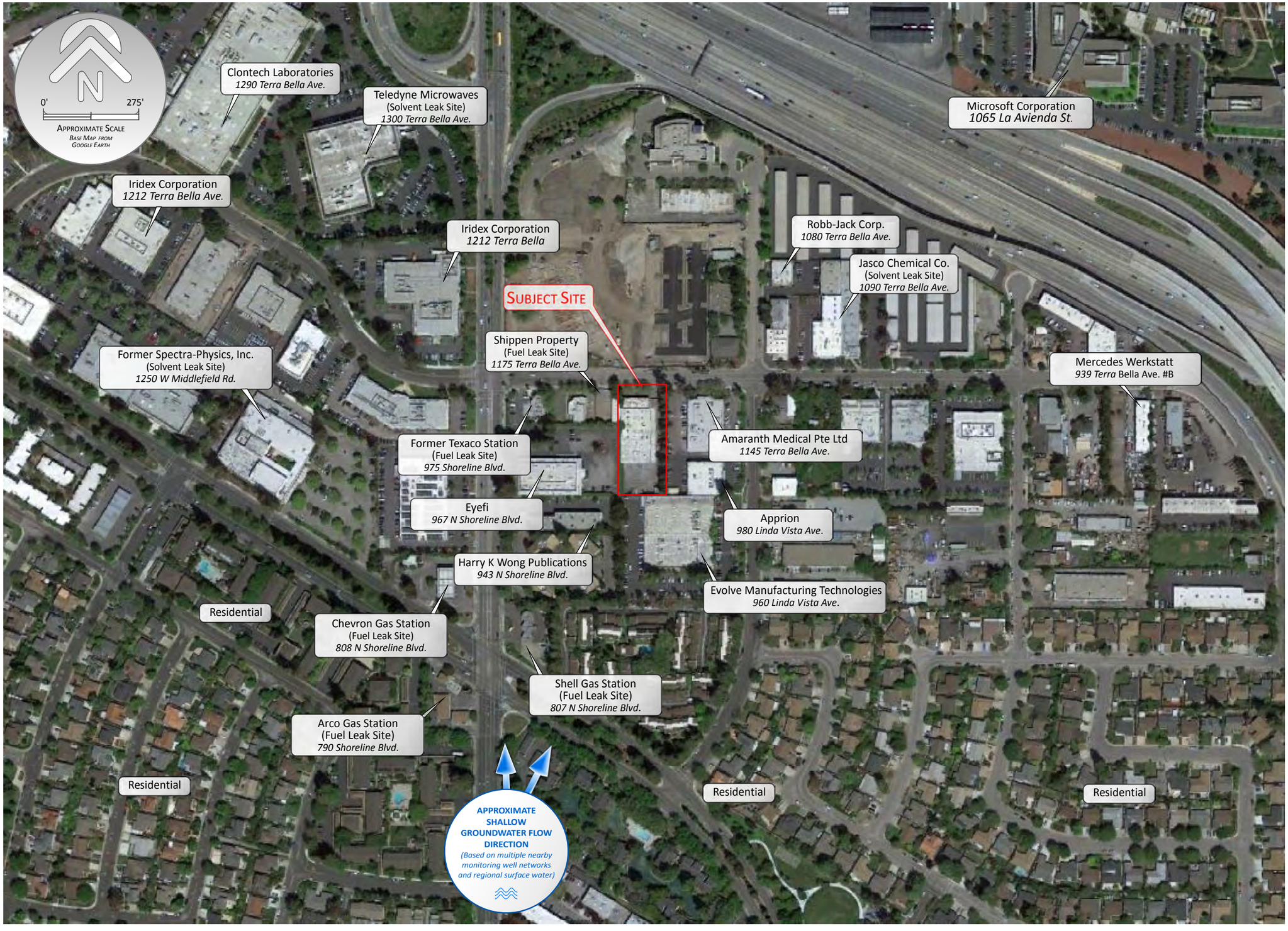

FIGURE 2
Project 2X834

VICINITY MAP

SITE: FORMER TELEWAVE PROPERTY
ADDRESS: 1155 TERRA BELLA AVE., MOUNTAIN VIEW, CA

REVISIONS/NOTES:

DATE: AUG. 2016

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Hydrogeology and Environmental Engineering
120 Westgate Drive, Watsonville, CA
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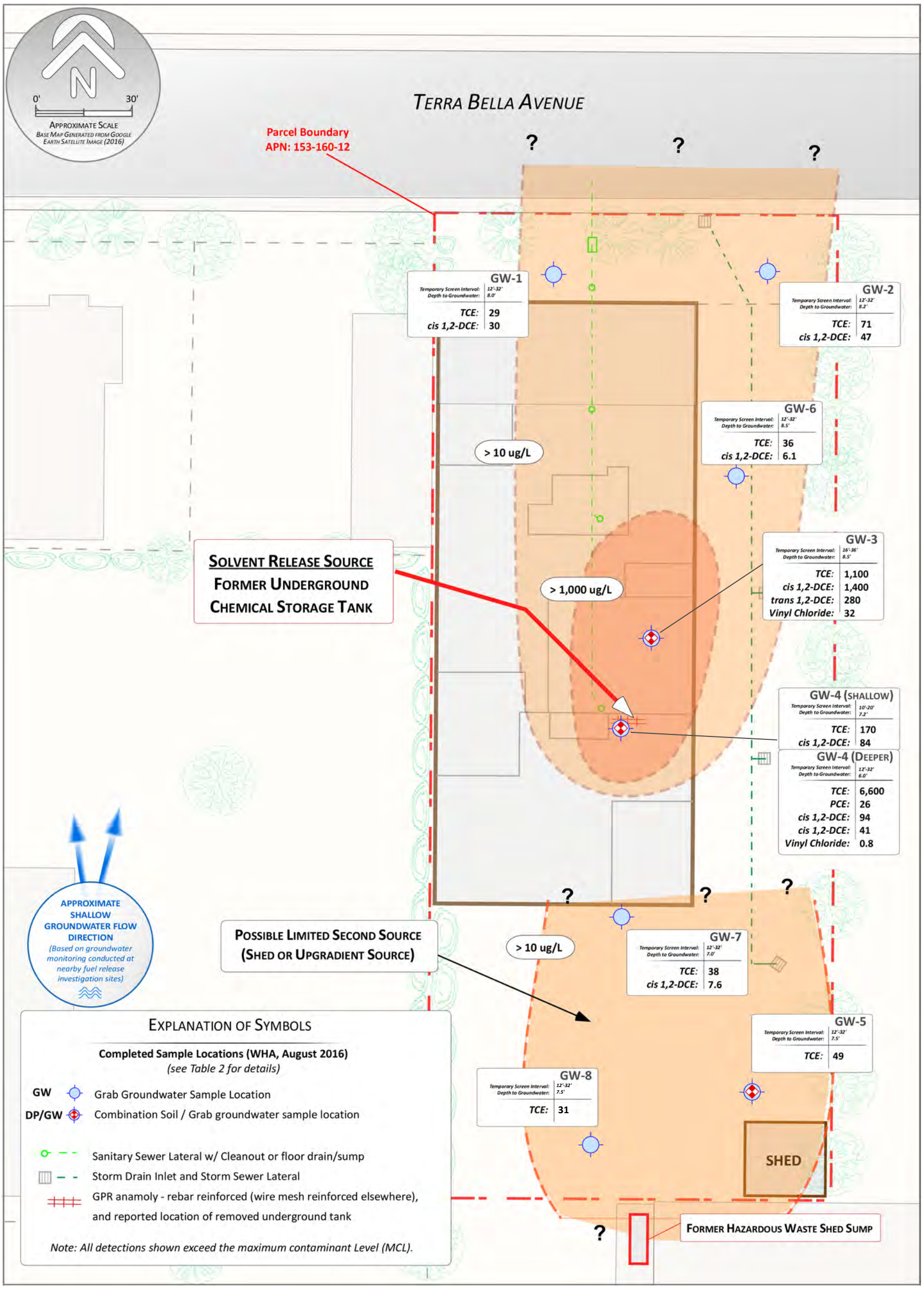

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A-Zone Grab Groundwater Results
TCE Iso-Concentration Map (~15-30 ft bgs)

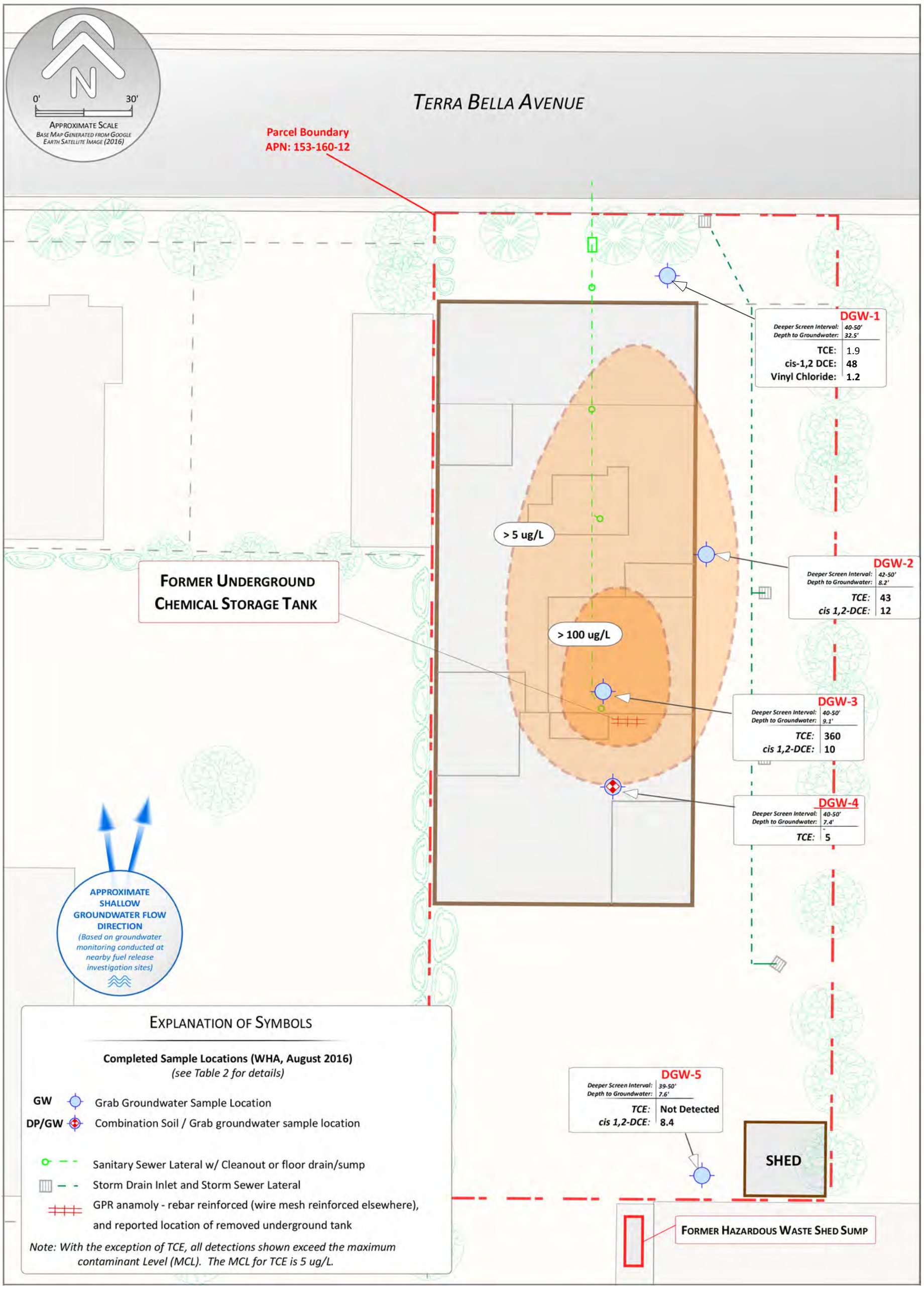
(Phase I/II ESA - Sampled August 9 & 10, 2016)

Site: Former Telewave Property
Address: 1155 Terra Bella Ave , Mountain View, CA

Date: Aug. 2018

Revisions/Notes:

Figure 3
Project 2X834



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B-Zone Grab Groundwater Results
TCE Iso-Concentration Map (~40-50 feet bgs)

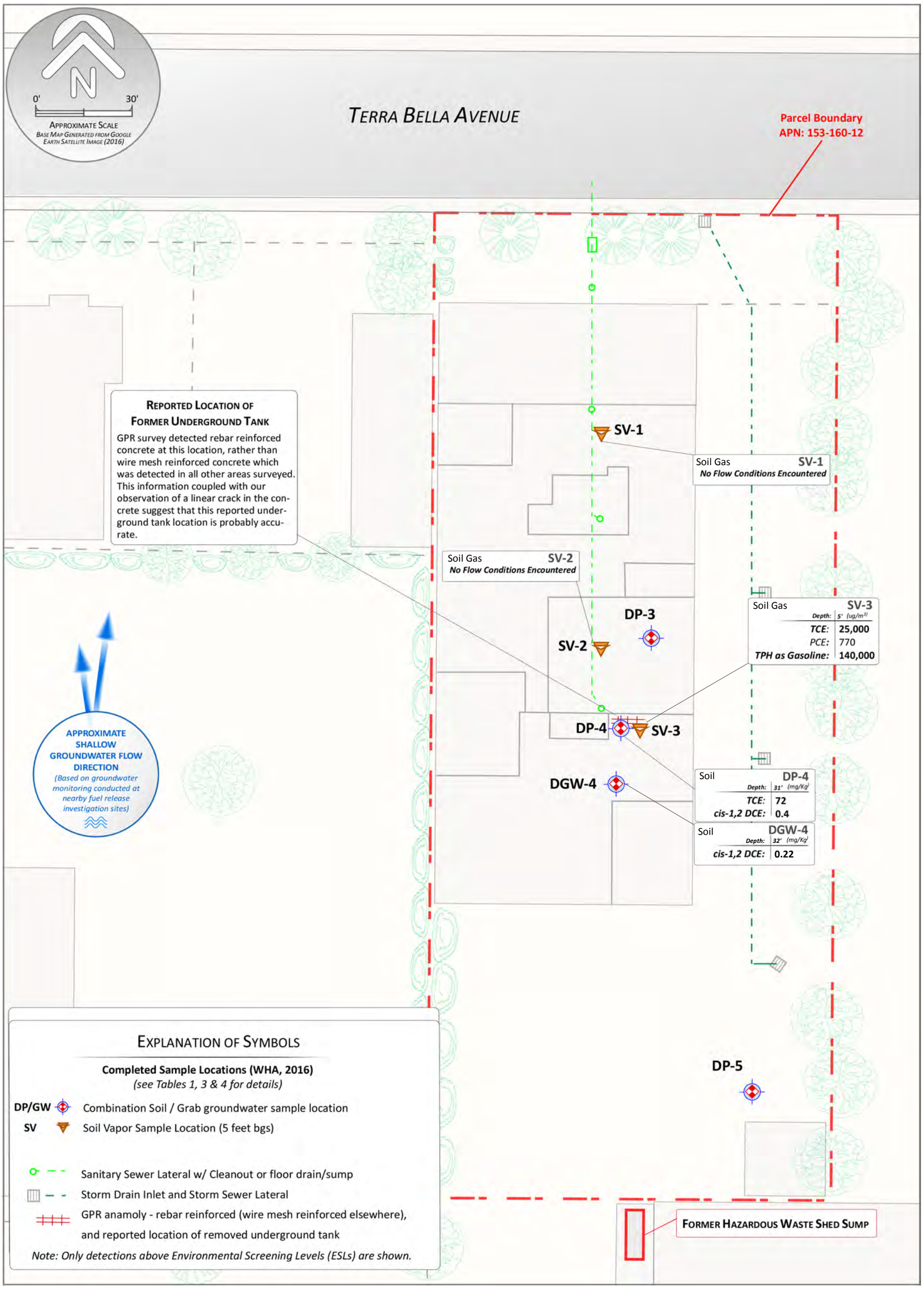
(Phase I/II ESA - Sampled September 15 & 16, 2016)

Site: Former Telewave Property
Address: 1155 Terra Bella Ave , Mountain View, CA

Date: Aug. 2018

Revisions/Notes:

Figure 4
Project 2X834



Soil and Soil Vapor Analytical Results

Phase I/II ESA - August & September 2016

Site: Former Telewave Property
Address: 1155 Terra Bella Ave , Mountain View, CA

Figure 5
Project 2X834

Date: Aug. 2018

Revisions/Notes:

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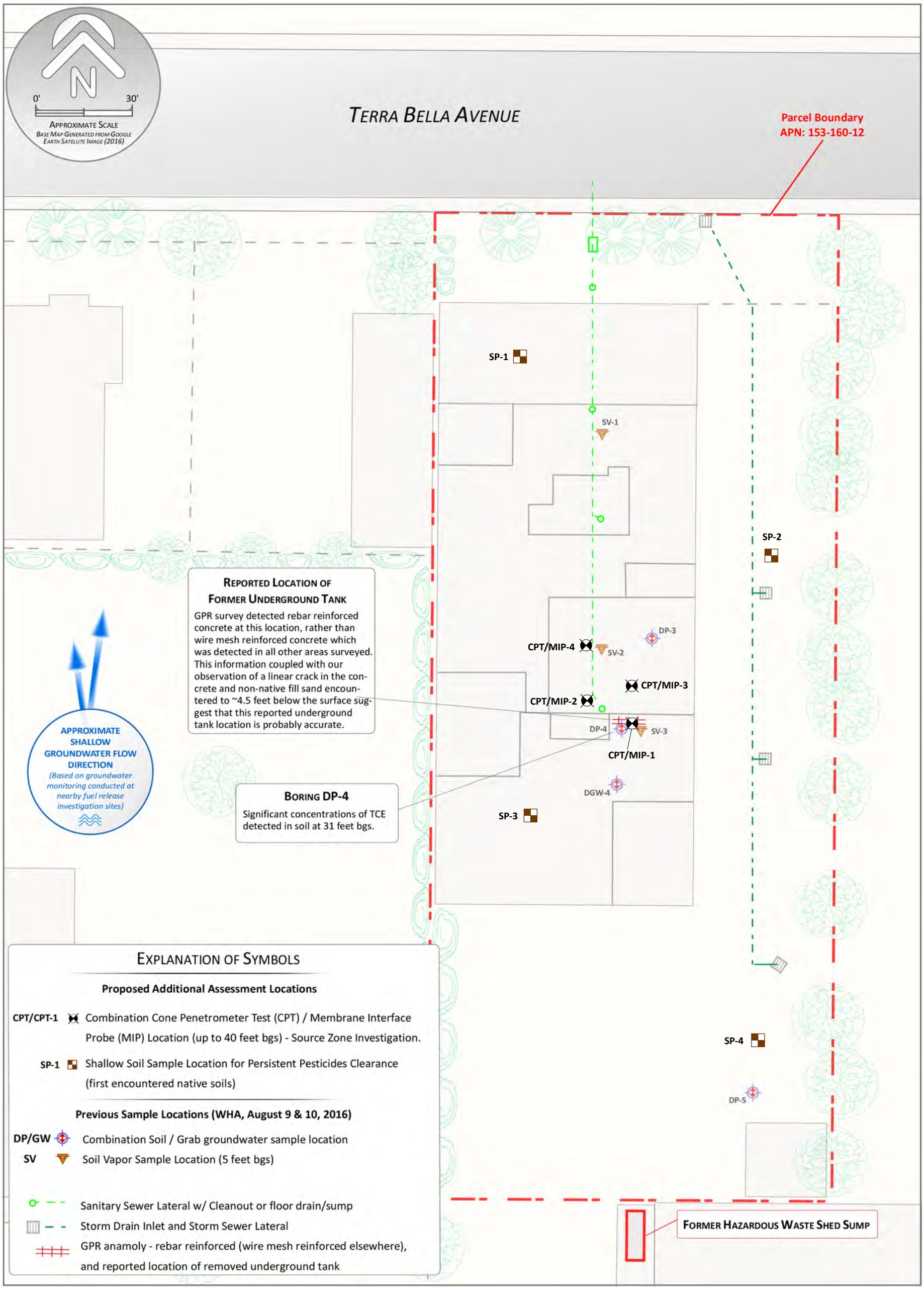

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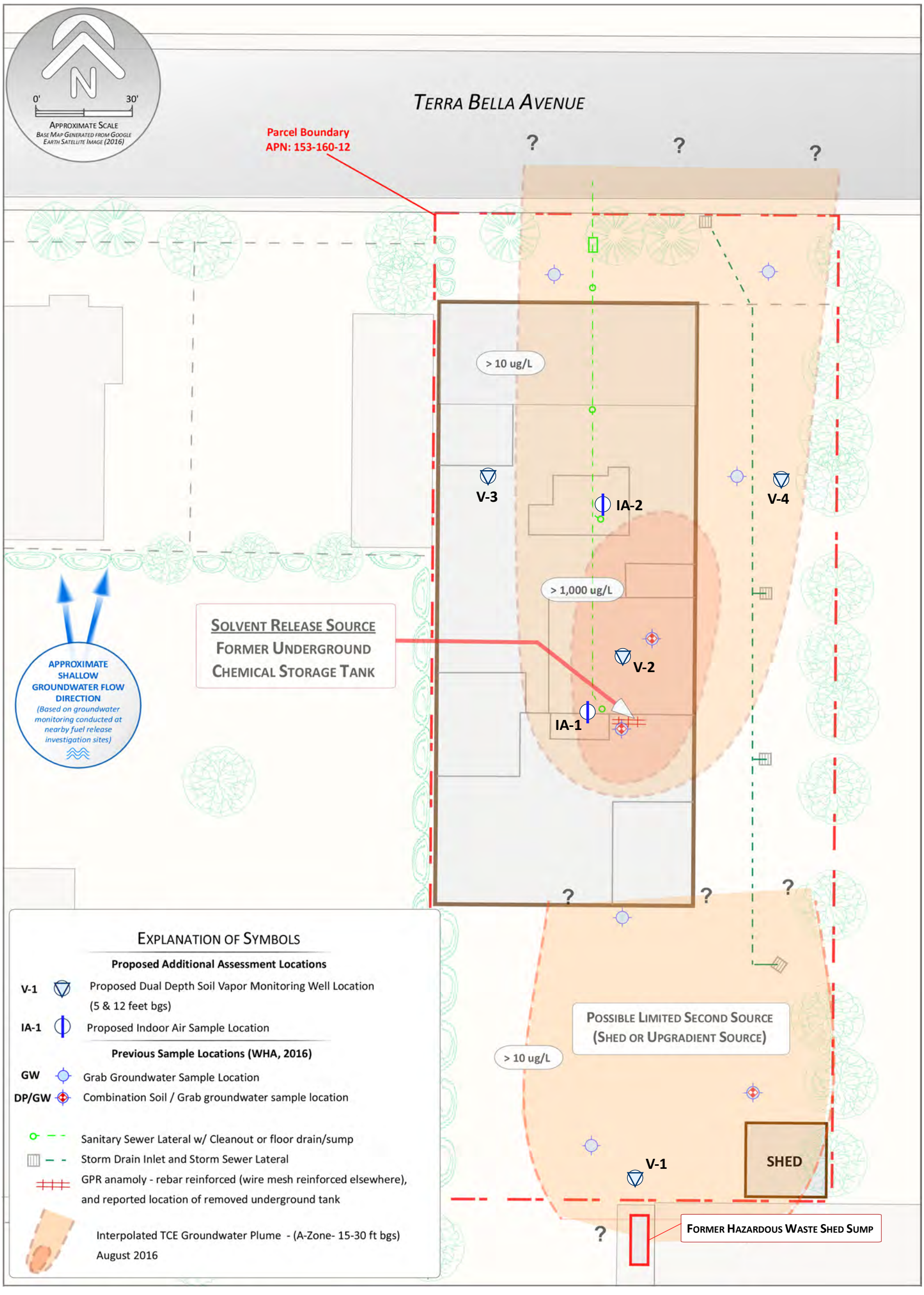
Site Map with Proposed Soil Source Zone Investigation Locations & Near Surface Soil Pesticides Clearance Locations

Site: Former Telewave Property
Address: 1155 Terra Bella Ave , Mountain View, CA

Date: Aug. 2018

Revisions/Notes:

Figure 6
Project 2X834



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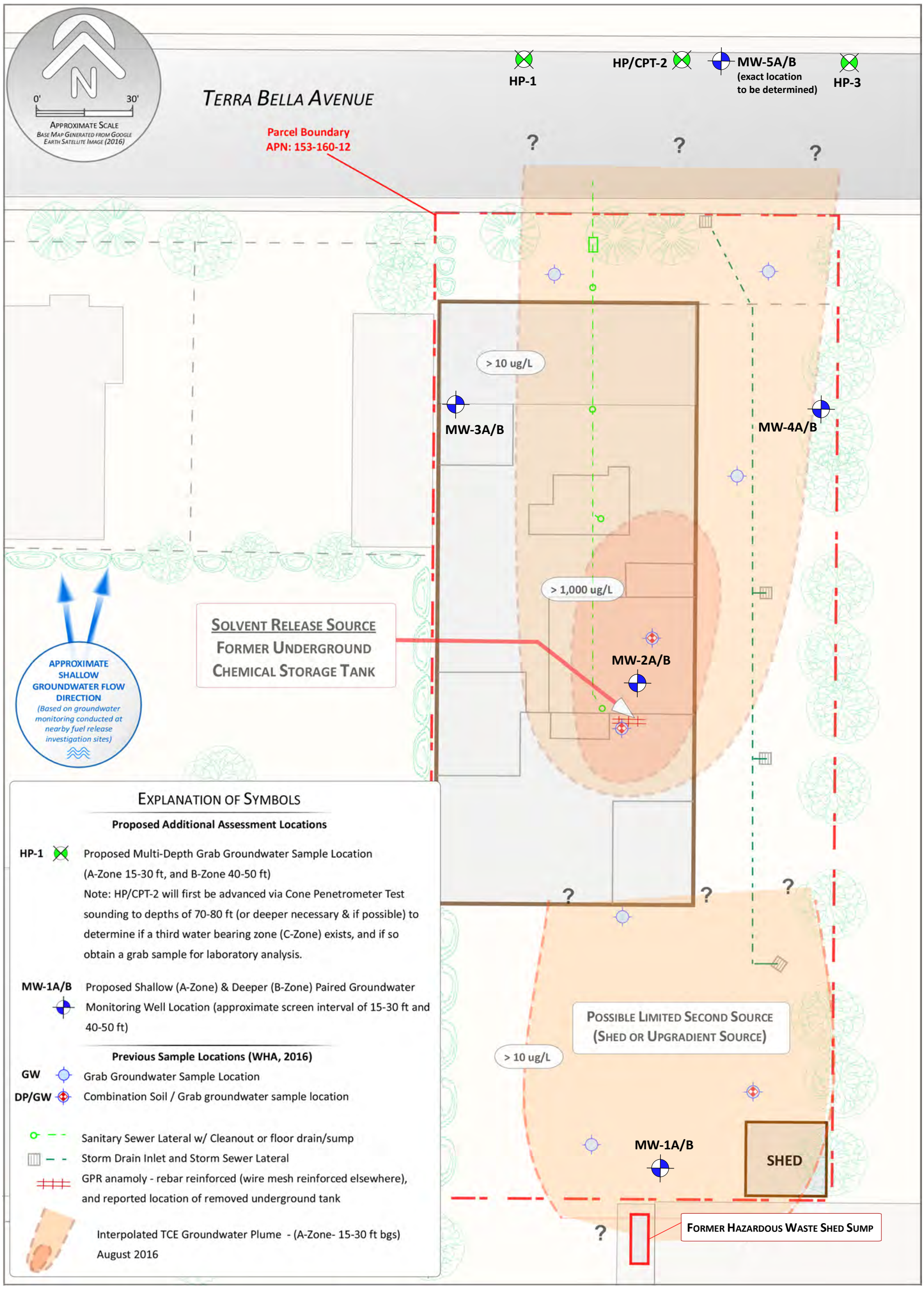
Site Map with Proposed Soil Vapor Monitoring Wells & Indoor Ambient Air Sample Locations

Site: Former Telewave Property
Address: 1155 Terra Bella Ave , Mountain View, CA

Date: Aug. 2018

Revisions/Notes:

Figure 7
Project 2X834



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Site Map with Proposed Downgradient Grab Groundwater Samples Locations & Proposed A-Zone (shallow)/B-Zone (deeper) Paired Monitoring Well Locations

Site: Former Telewave Property
Address: 1155 Terra Bella Ave , Mountain View, CA

Date: Aug. 2018

Revisions/Notes:

Figure 8
Project 2X834

TABLES

TABLE 1	*Grab Groundwater Sample Analytical Results*
TABLE 2	*Soil Sample Analytical Results – Volatile Organic Compounds*
TABLE 3	*Soil Sample Analytical Results – Metals*
Table 4	*Soil Vapor Sample Analytical Results*

Table 1

Grab Groundwater Sample Analytical Results

Volatile Organic Compounds (Solvent & Fuel Compounds)

Former Telewave Property - 1155 Terra Bella Avenue, Mountain View

All water sample resutlts are presented as ug/L (i.e., parts per billiion)

Groundwater Sampling Information				Certified Laboratory Results											
					Volatile Organic Compounds (by EPA 8260)										
					Fuel Constituent Compounds (volatiles)				Solvent Compounds						
Sample Date	"Grab" Groundwater Sample ID	Screen Interval (feet, bgs)	Depth to Groundwater[2] (feet, bgs)	Fuel Fingerprint Total Petroleum Hydrocarbons (TPH)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	PCE	TCE	cis 1,2-DCE	trans 1,2-DCE	1,1,1-TCA	Vinyl Chloride	Other VOCs
August 10, 2016	GW-1	12 - 32	8.0	ND	< 0.50	0.14 J	< 0.50	< 1.0	< 0.50	29	30	0.77	< 0.50	< 0.50	All Other VOCs = ND
	GW-2	12 - 32	8.2	--	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	71	47	1.9	< 0.50	0.26 J	1,1-DCE = 0.31 J
	GW-3	16 - 36	8.5	--	< 0.50	0.41 J	< 0.50	< 1.0	0.73	1,100	1,400	280	< 0.50	32	1,1-DCA = 0.28 J 1,1-DCE = 17
	GW-4	10 - 20 (shallow)	7.2	ND	< 0.50	0.11 J	< 0.50	< 1.0	2.5	170	84	0.9	0.36 J	0.12	1,1-DCA = 0.39 J 1,1-DCE = 1.3
		12 - 32 (deeper zone)	6.0	ND	0.97	1.7	0.6	0.68 J	26	6,600	94	41	1.6	0.8	1,1-DCA = 0.67 1,1-DCE = 2.0 1,2-Dichlorobenzene = 1.1 1,4-Dichlorobenzene = 0.11 J Methylene chloride = 24 1,2,4-Trimethylbenzene = 0.37 J 1,3,5-Trimethylbenzene = 0.21 J
	GW-5	12 - 32	7.5	--	< 0.50	0.24 J	< 0.50	< 1.0	0.29 J	49	4.7	0.19 J	0.65	< 0.50	All Other VOCs = ND
	GW-6	12 - 32	8.5	--	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	36	6.1	0.48 J	< 0.50	< 0.50	1,1-DCA = 0.20 J 1,1-DCE = 0.37 J
	GW-7	12 - 32	7.0	--	0.42 J	0.34 J	0.18 J	< 1.0	< 0.50	38	7.6	< 0.50	0.15 J	< 0.50	All Other VOCs = ND
	GW-8	12 - 32	7.5	--	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	31	2.0	0.31 J	0.22 J	< 0.50	All Other VOCs = ND
Practical Quantitation Limit (PQL):				*Varies*	*0.50*			*1.0*	*0.50*						
Regulatory Cleanup Goals for Groundwater Maximum Contaminant Levels (MCL)[1]:				**TPH[3] as Diesel= 100 as Motor Oil = 50,000**	**1**	**150**	**300**	**1,750**	**5**	**5**	**6**	**10**	**200**	**0.5**	**1,2-Dichlorobenzene = 600 1,4-Dichlorobenzene = 5 1,1-DCA = 5 1,1-DCE = 6 (all others = not established)**

Table 1

Grab Groundwater Sample Analytical Results

Volatile Organic Compounds (Solvent & Fuel Compounds)

Former Telewave Property - 1155 Terra Bella Avenue, Mountain View

All water sample resutlts are presented as ug/L (i.e., parts per billiion)

Groundwater Sampling Information				Certified Laboratory Results										
					Volatile Organic Compounds (by EPA 8260)									
					Fuel Constituent Compounds (volatiles)				Solvent Compounds						
Sample Date	"Grab" Groundwater Sample ID	Screen Interval (feet, bgs)	Depth to Groundwater[2] (feet, bgs)	Fuel Fingerprint Total Petroleum Hydrocarbons (TPH)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	PCE	TCE	cis 1,2-DCE	trans 1,2-DCE	1,1,1-TCA	Vinyl Chloride	Other VOCs
September 15-16, 2016	DGW-1	40 - 50	32.5	--	< 0.50	0.99	0.28 J	1.6	< 0.50	1.9	48	0.71	< 0.50	1.2	1,2,4-Trimethylbenzene = 0.32 J
	DGW-2	42 - 50	8.2	--	0.12 J	0.13 J	< 0.50	< 1.0	0.13 J	43	12	1.2	< 0.50	0.17 J	1,1-DCE = 0.32 J
	DGW-3	40 - 50	9.1	--	0.17 J	0.34 J	0.10 J	0.49 J	1.1	360	10	6.1	0.12 J	< 0.12	1,1-DCA = 0.15 J 1,1-DCE = 0.43 J 1,2,4-Trimethylbenzene = 0.14 J
	DGW-4	40 - 50	7.4	--	0.13 J		< 0.50	0.40 J	< 0.50	5	0.56	< 0.50	< 0.50	< 0.0011	1,1-DCA = 0.14 J 1,2,4-Trimethylbenzene = 0.14 J
	DGW-5	39 - 50	7.6	--	< 0.50	0.42 J	0.16 J	0.89 J	1.0	<0.50	8.4	< 0.50	< 0.50	< 0.0011	Methyl t-Butyl ether = 0.68 1,2,4-Trimethylbenzene = 0.28 J
Practical Quantitation Limit (PQL):				*Varies*	*0.50*			*1.0*	*0.50*						
Regulatory Cleanup Goals for Groundwater **Maximum Contaminant Levels (MCL)[1]:**				**TPH[3] as Diesel= 100 as Motor Oil = 50,000**	**1**	**150**	**300**	**1,750**	**5**	**5**	**6**	**10**	**200**	**0.5**	**1,2-Dichlorobenzene = 600 1,4-Dichlorobenzene = 5 1,1-DCA = 5 1,1-DCE = 6 (all others = not established)**

NOTES:

GW = Groundwater **DGW =** Deeper Groundwater Sample

1 = Water Quality Goals: Goals establised by the CRWQCB Central Coast Region based on State *Maximum Contaminant Levels* (Department of Health Services) or taste & odor threshold limits.

2 = Depths shown are not necessarily stabilized depth to groundwater. Boring logs show damp to moist, interbedded fine grained silts, clays and clayey sands to depths of 32 feet, with no saturated water bearing zones. Cased borings slowly porduce water.

3 = No MCL established for TPH as diesel or TPH as motor oil, instead, the ESL thresholds are listed in place of the MCLs.

BOLD = Indicates contaminant compound detected. **BOLD =** Indicates concentration exceeds Water Quality Goal.

J = Laboratory indicates a value between Method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative.

< # = Reporting limit elevated due to sample dilution and compound not detected at or above the Method Detection Limit (MDL),

ND = Not Detected **NE =** Not Established **bgs =** below ground surface

PCE = Tetrachloroethene **cis 1,2-DCE =** cis-1,2-Dichloroethene **1,1-DCE =** 1,1-Dichloroethene **1,1,1-TCA =** 1,1,1-Trichloroethane

TCE = Trichloroethene **trans 1,2-DCE =** trans 1,2-Dichloroethene **1,1-DCA =** 1,1-Dichloroethane

Table 2
Soil Sample Analytical Results
Volatile Organic Compounds (VOCs)
Former Telewave Property - 1155 Terra Bella Avenue, Mountain View

All soil results are in milligrams per Kilogram (mg/Kg)

Sample Information			***Laboratory Test Results***									
				Volatile Organic Compounds (VOCs) *by EPA Method 8260B*								
Date Sampled	***Sample ID***	***Depth*** *(feet below ground surface)*	**Total Petroleum Hydrocarbons (TPH) Fuel Fingerprint**	***Benzene***	***Toluene***	***Ethylbenzene***	***Total Xylenes***	***PCE***	***TCE***	***cis-1,2 DCE***	***trans-1,2 DCE***	***Vinyl Chloride***	***All Other VOCs***
August 9-10, 2016	**DP-3**	4	--	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	**0.0053**	< 0.005	< 0.005	< 0.005	All Others = ND
		8	--	**0.0048** J	**0.0032** J	< 0.005	< 0.01	**0.0023** J	**0.32**	< 0.005	< 0.005	< 0.005	All Others = ND
		12	--	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	**0.27**	**0.0062**	**0.0020 J**	< 0.005	All Others = ND
		24	--	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	**0.025**	**0.081**	**0.023**	< 0.005	All Others = ND
		28	--	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	**0.041**	**0.10**	**0.021**	< 0.005	All Others = ND
		32	--	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	**0.29**	**0.026**	**0.014**	< 0.005	All Others = ND
Laboratory's *Practical Quantitation Limit (PQL)*			Various	0.0050	0.0050	0.0050	0.01	0.0050	0.0050	0.0050	0.0050	0.0050	Various
Environmental Screening Levels (1) **For Shallow Soils (i.e., < 10 ft)** **Residential / Industrial**			**TPH-Diesel = 230 / 570** **TPH-Motor Oil = 5,100 / 5,100**	**0.044 / 0.044**	**2.9 / 2.9**	**1.4 / 1.4**	**2.3 / 2.3**	**0.42 / 0.42**	**0.46 / 0.46**	**0.19 / 0.19**	**0.67 / 0.67**	**0.0082 / 0.01**	**1,2-Dichlorobenzene = 1.6 / 1.6** **1,1-Dichloroethane = 0.2 / 0.2** **1,2-Dichloroethane = 0.0045 / 0.0045** **1,1-Dichloroethene = 0.055 / 0.055** **Methylene chloride = 0.077 / 0.077**
For Deep Soils (i.e., > 10 ft) **Residential / Industrial**			**TPH-Diesel = 570 / 570** **TPH-Motor Oil = 5,100 / 5,100**									**0.01 / 0.01**	**1,2-Dichlorobenzene = 1.6 / 1.6** **1,1-Dichloroethane = 0.2 / 0.2** **1,2-Dichloroethane = 0.0045 / 0.0045** **1,1-Dichloroethene = 0.055 / 0.055** **Methylene chloride = 0.077 / 0.077**
DTSC -Modified Screening Limits ***Human and Ecological Risk Office (HERO)*** **Human Health Risk Assessment - Note 3** (2)			**Not Established**	**0.33 / 1.4**	**1,100 / 5,400**	**5.8 / 25** A	**580 / 2,500** A	**0.6 / 2.7**	**0.94 / 6.0** A	**19 / 86**	**130 / 600**	**0.0088 / 0.15**	**1,2-Dichlorobenzene = 1,800 / 9,300** A **1,1-Dichloroethane = 3.6 / 16** **1,2-Dichloroethane = 0.46 / 2.0** A **1,1-Dichloroethene = 230 / 1,000** A **Methylene chloride = 1.9 / 24** **1,2,4-Trimethylbenzene = 58 / 240** A **1,3,5-Trimethylbenzene = 210 / 1,100**

Table 2
Soil Sample Analytical Results
Volatile Organic Compounds (VOCs)
Former Telewave Property - 1155 Terra Bella Avenue, Mountain View

All soil results are in milligrams per Kilogram (mg/Kg)

Sample Information			***Laboratory Test Results***									
			Total Petroleum Hydrocarbons (TPH) Fuel Fingerprint	***Volatile Organic Compounds (VOCs)*** *by EPA Method 8260B*								
Date Sampled	***Sample ID***	***Depth*** *(feet below ground surface)*		***Benzene***	***Toluene***	***Ethylbenzene***	***Total Xylenes***	***PCE***	***TCE***	***cis-1,2 DCE***	***trans-1,2 DCE***	***Vinyl Chloride***	***All Other VOCs***
August 9-10, 2016	**DP-4**	4.5	--	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	**0.012**	< 0.005	< 0.005	< 0.005	All Others = ND
		8	--	**0.0080**	**0.0060**	< 0.005	< 0.01	< 0.005	**0.060**	< 0.005	< 0.005	< 0.005	All Others = ND
		12	--	< 0.005	< 0.005	< 0.005	< 0.01	**0.0033** J	**0.057**	**0.0013** J	< 0.005	< 0.005	All Others = ND
		24	TPH-Diesel = 2.8 J	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	**0.039**	**0.0020** J	< 0.005	< 0.005	All Others = ND
		27	ND	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.038**	**0.0026** J	< 0.005	< 0.005	All Others = ND
		31	ND	**0.0022** J	**0.014**	**0.0049** J	**0.018**	**0.18**	**72**	**0.4**	**0.34**	**0.0016** J	1,2-Dichlorobenzene = 0.0017 J 1,1-Dichloroethane = 0.0038 J 1,2-Dichloroethane = 0.00093 J 1,1-Dichloroethene = 0.0081 **Methylene chloride = 0.47** 1,2,4-Trimethylbenzene = 0.0041 J 1,3,5-Trimethylbenzene = 0.0020 J
August 9-10, 2016	**DP-5**	4	--	**0.0057**	**0.0045** J	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	All Others = ND
		8	--	**0.0082**	**0.0068**	< 0.005	< 0.01	< 0.005	**0.0033** J	< 0.005	< 0.005	< 0.005	All Others = ND
	SV-1	5	--	**0.0017** J	**0.0014** J	< 0.005	< 0.01	< 0.005	**0.033**	< 0.005	< 0.005	< 0.005	All Others = ND
	SV-2	5	--	**0.0017** J	**0.0013** J	< 0.005	< 0.01	< 0.005	**0.039**	< 0.005	< 0.005	< 0.005	All Others = ND
Laboratory's *Practical Quantitation Limit (PQL)*			Various	0.0050	0.0050	0.0050	0.01	0.0050	0.0050	0.0050	0.0050	0.0050	Various
Environmental Screening Levels (1) **For Shallow Soils (i.e., < 10 ft)** **Residential / Industrial**			**TPH-Diesel = 230 / 570** **TPH-Motor Oil = 5,100 / 5,100**	**0.044 / 0.044**	**2.9 / 2.9**	**1.4 / 1.4**	**2.3 / 2.3**	**0.42 / 0.42**	**0.46 / 0.46**	**0.19 / 0.19**	**0.67 / 0.67**	**0.0082 / 0.01**	**1,2-Dichlorobenzene = 1.6 / 1.6** **1,1-Dichloroethane = 0.2 / 0.2** **1,2-Dichloroethane = 0.0045 / 0.0045** **1,1-Dichloroethene = 0.055 / 0.055** **Methylene chloride = 0.077 / 0.077**
For Deep Soils (i.e., > 10 ft) **Residential / Industrial**			**TPH-Diesel = 570 / 570** **TPH-Motor Oil = 5,100 / 5,100**									**0.01 / 0.01**	**1,2-Dichlorobenzene = 1.6 / 1.6** **1,1-Dichloroethane = 0.2 / 0.2** **1,2-Dichloroethane = 0.0045 / 0.0045** **1,1-Dichloroethene = 0.055 / 0.055** **Methylene chloride = 0.077 / 0.077**
DTSC -Modified Screening Limits ***Human and Ecological Risk Office (HERO)*** **Human Health Risk Assessment - Note 3** (2)			**Not Established**	**0.33 / 1.4**	**1,100 / 5,400**	**5.8/ 25** A	**580 / 2,500** A	**0.6 / 2.7**	**0.94 / 6.0** A	**19 / 86**	**130 / 600**	**0.0088 / 0.15**	**1,2-Dichlorobenzene = 1,800 / 9,300** A **1,1-Dichloroethane = 3.6 / 16** **1,2-Dichloroethane = 0.46 / 2.0** A **1,1-Dichloroethene = 230 / 1,000** A **Methylene chloride = 1.9 / 24** **1,2,4-Trimethylbenzene = 58 / 240** A **1,3,5-Trimethylbenzene = 210 / 1,100**

Table 2
Soil Sample Analytical Results
Volatile Organic Compounds (VOCs)
Former Telewave Property - 1155 Terra Bella Avenue, Mountain View

All soil results are in milligrams per Kilogram (mg/Kg)

Sample Information			***Laboratory Test Results***									
				Volatile Organic Compounds (VOCs) *by EPA Method 8260B*								
Date Sampled	***Sample ID***	***Depth*** *(feet below ground surface)*	**Total Petroleum Hydrocarbons (TPH) Fuel Fingerprint**	***Benzene***	***Toluene***	***Ethylbenzene***	***Total Xylenes***	***PCE***	***TCE***	***cis-1,2 DCE***	***trans-1,2 DCE***	***Vinyl Chloride***	***All Other VOCs***
Sebtember 15-16, 2016	**DGW -4**	8	--	**0.012**	**0.0079**	**0.011** J	< 0.01	**0.0015**J	**0.084**	< 0.005	< 0.005	< 0.005	All Others = ND
		16	--	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	**0.053**	**0.0010** J	< 0.005	< 0.005	All Others = ND
		24	--	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	**0.039**	**0.0057**	< 0.005	< 0.005	All Others = ND
		28	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.0011**J	**0.015**	< 0.005	< 0.005	All Others = ND
		32	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.019**	**0.22**	**0.0045**	**0.0069**	1,1-Dichloroethene = 0.0020J
Laboratory's *Practical Quantitation Limit (PQL)*			Various	0.0050	0.0050	0.0050	0.01	0.0050	0.0050	0.0050	0.0050	0.0050	Various
Environmental Screening Levels (1) **For Shallow Soils (i.e., < 10 ft)** **Residential / Industrial**			**TPH-Diesel = 230 / 570** **TPH-Motor Oil = 5,100 / 5,100**	**0.044 / 0.044**	**2.9 / 2.9**	**1.4 / 1.4**	**2.3 / 2.3**	**0.42 / 0.42**	**0.46 / 0.46**	**0.19 / 0.19**	**0.67 / 0.67**	**0.0082 / 0.01**	**1,2-Dichlorobenzene = 1.6 / 1.6** **1,1-Dichloroethane = 0.2 / 0.2** **1,2-Dichloroethane = 0.0045 / 0.0045** **1,1-Dichloroethene = 0.055 / 0.055** **Methylene chloride = 0.077 / 0.077**
For Deep Soils (i.e., > 10 ft) **Residential / Industrial**			**TPH-Diesel = 570 / 570** **TPH-Motor Oil = 5,100 / 5,100**									**0.01 / 0.01**	**1,2-Dichlorobenzene = 1.6 / 1.6** **1,1-Dichloroethane = 0.2 / 0.2** **1,2-Dichloroethane = 0.0045 / 0.0045** **1,1-Dichloroethene = 0.055 / 0.055** **Methylene chloride = 0.077 / 0.077**
DTSC -Modified Screening Limits ***Human and Ecological Risk Office (HERO)*** **Human Health Risk Assessment - Note 3**(2)			**Not Established**	**0.33 / 1.4**	**1,100 / 5,400**	**5.8/ 25**A	**580 / 2,500**A	**0.59 / 2.7**	**0.94 / 6.0**A	**19 / 86**	**130 / 600**	**0.0088 / 0.15**	**1,2-Dichlorobenzene = 1,800 / 9,300**A **1,1-Dichloroethane = 3.6 / 16** **1,2-Dichloroethane = 0.46 / 2.0**A **1,1-Dichloroethene = 230 / 1,000**A **Methylene chloride = 1.9 / 24** **1,2,4-Trimethylbenzene = 58 / 240**A **1,3,5-Trimethylbenzene = 210 / 1,100**

Notes

1 = **Environmental Screening Levels (ESLs):** from *User's Guide: Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater,* set by the San Francisco Bay Regional Water Quality Control Board (updated May 2016). <http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/ESL/ESL%20Workbook_ESLs_Interim%20Final_22Feb16_Rev3_PDF.pdf > The ESLs are intended to provide quantitative risk-based guidance on whether further assessment or remediation of contamination is warranted. The ESLs used in this table were obtained from the above referenced document.

2= **CA DTSC Modified Soil Screening Levels:** From the California Department of Toxic Substances Control (DTSC), Office of Human and Ecological Risk (HERO), *Human Health Risk Assessment (HHRA) Note Number 3, Table 3* , Jan 2016 < https://www.dtsc.ca.gov/AssessingRisk/upload/HHRA-Note-3-2016-01.pdf >.

A = No established DTSC HERO Note 3 threshold value for the analyte. The Regional Screening Levels are referenced when no DTSC value is provided (see below for reference).
NOTE: The USEPA Regional Screening Levels (RSLs): from the *USEPA Region 9 RSL Tables* (updated November 2015) <https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables-november-2015, revised Nov 2015>. The RSLs are risk-based screening levels used for screening sites, calculating risk factors and potentially as cleanup goals once a site has been characterized.

<X or ND = Analyte not detected at or above the laboratory Method Detection Limit (MDL), X.

NE = Not Established

J = Analyte Detected above Method Detection Limit (MDL) but below the PQL.

BOLD = Analytical result above Residential ESL or DTSC HERO Note 3 value.

BOLD = Analyte Detected

*= Soil sample collected and anlyzed due to low flow vapor condtions (refusal) at this location originally targeted for soil vapor sampling.

Table 3

Soil Sample Analytical Results - Metals

Former Telewave Property - 1155 Terra Bella Avenue, Mountain View

All soil results are in milligrams per Kilogram (mg/Kg, parts per million)

Sample Information		Laboratory Results							
		Metals Analysis Total Threshold Limit Concentration (TTLC) analysis by EPA Method 6010B							
Sample ID	Depth (feet below ground surface)	Arsenic [2]	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Aluminum
DP-4	4.5 ft	**5.7**	< 0.26 [MDL]	180	630	6.4	52	53	17,000
	12 ft	**9.7**	--	--	--	--	--	--	--
	24 ft	**3.2**	--	--	--	--	--	--	--
	27 ft	**1.2**	--	--	--	--	--	--	--
	31 ft	**2.5**	--	--	--	--	--	--	--
SV-1	5 ft	**6.0**	--	--	--	--	--	--	--
SV-2	5 ft	**6.2**	--	--	--	--	--	--	--
Laboratory's *Practical Quantitation Limit (PQL)*		1.0	0.5	0.5	1.0	2.5	0.5	2.5	5.0
Environmental Screening Levels [1] **Residential / Industrial Land Use** (For Shallow Soils = < 10 ft)		***0.067 / 0.31***	***39 / 43***	***Not Established***	***3,100 / 14,000***	***80 / 160***	***820 / 86***	***23,000 / 110,000***	***Not Established***

Notes

1 = **Environmental Screening Levels (ESLs):** from *User's Guide: Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater,* set by the San Francisco Bay Regional Water Quality Control Board (Final version, 2016). The ESLs are intended to provide quantitative risk-based guidance on whether further assessment or remediation of contamination is warranted.

2 = **Naturally Occuring Arsenic:** Note that Arsenic concentrations (and other metals) do occur naturally in the environment. Arsenic is a unique metal that can be present at naturally-occuring levels but still exceed the extremely low, agency thresholds for risk (threshold limit generated from toxicity studies). Naturally-occurring Arsenic concentrations in the Bay Area have been established at 11 mg/kg (Duvergé, 2011).

ND = Analyte not detected above the laboratory Method Detection Limit (MDL).

BOLD = Analytical result above Residential ESL.

- = Sample was not analyzed for this constituent

PCB = Polychlorinated biphenyl

MDL = Laboratory's mimimum detection level (lowest achievable concentration, based on high confidence level).

J = Laboratory reports that the detection value is between MDL and PQL, and should be considered to be an estimate with a high level of confidence.

Table 4

Soil Vapor Sample Analytical Results

Volatile Organic Compounds

Former Telewave Property - 1155 Terra Bella Ave, Mountain View

All soil vapor results are in microgram per cubic meter (ug/m ^{3})

Investigation Date	Sample Information		TPH as Gasoline	Volatile Organic Compounds (VOCs) — Laboratory Analysis by EPA Method TO-15 at STP											Leak Check Monitoring (Isopropyl Alcohol)		
	Sample ID	Depth (feet below ground surface)		Benzene	Toluene	Ethylbenzene	Xylene	PCE	TCE	cis- 1,2 DCE	trans- 1,2 DCE	Vinyl Chloride	1,1,1- Trichloroethane	Other VOCs	Field Shroud Concentration (avg., in ppm)	Laboratory Results (in ug/m^3)	Calculated Leakage (percent)
Soil Vapor Sampling (August 9, 2016)	SV-1	5	SAMPLE REFUSAL (No soil gas flow at these two vapor well locations due to low permability clays) As per State DTSC protocol for no-flow conditions, a backup soil sample was collected at the base of each boring and laboratory tested (See TABLE 3 for these Soil Test Results)												--	--	--
	SV-2	5													--	--	--
	SV-3	5	**140,000^**	< 58	2,600^	< 38	< 120	**770^**	**25,000^**	< 3.6	< 4.6	< 67	**370^J**	Acetone = 5,400^	108.0	< 64.0	< 0.024
Laboratory's *Practical Quantitation Limit (PQL)*			2,800	28	28	71	140	70	70	70	70	28	70	Various	--	--	--
Environmental Screening Levels (1) Residential ATTENUATION FACTOR: 0.002 Commercial ATTENUATION FACTOR: 0.001			50,000 100,000	48 420	160,000 1,300,000	560 4,900	52,000 440,000	240 2,100	240 3,000	4,200 35,000	42,000 350,000	4.7 160	42,000 350,000	Acetone = 15,000,000 Methyl ethyl ketone = 2,600,000 All others = (varies by compound)			
CA DTSC-Modified Soil Gas Levels (3) "Near Source" (Soil Vapor Well) Threshold Limits Residential ATTENUATION FACTOR: 0.002 Commercial ATTENUATION FACTOR: 0.001			Not Established	49 420	155,000 1,300,000	550 4,900	50,000 440,000	240 2,100	240 3,000	4,150 35,000	41,500 350,000	4.8 160	155 461	Acetone = NE Methyl ethyl ketone = NE All others = (varies by compound)			

Notes

1 = **Environmental Screening Levels (ESLs):** from *User's Guide: Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater,* set by the San Francisco Bay Regional Water Quality Control Board (Interim Final, Feb 2016) < **http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/ESL/ESL%20Workbook_ESLs_PDF_Rev2.pdf** >. The ESLs are intended to provide quantitative risk-based guidance on whether further assessment or remediation of contamination is warranted. The ESLs used in this table were obtained from the above referenced document,"Tier 1 ESLs", based on shallow soils (<3m), groundwater is a current or potential source of drinking water.

2 = **US EPA Region 9 Indoor Air Regional Screening Levels (RSLs):** From *US EPA Regional Screening Levels for Indoor Air* (**https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables-november-2015,** revised Nov 2015) . The Indoor Air RSLs are divided by the US EPA's Recommended Vapor Attenuation Factor (from the US EPA's Recommended Vapor Attenuation Factor for Risk Based Screening of sub-slab soil gas [Table 6-1 in Final Guidance for Assessing and Mitigating the Vapor Intrusion Pathway From Subsurface Sources to Indoor Air, June 2015]) to calculate the Risk Level concentration appropriate for the specific sample collected (i.e., Sub-slab soil gas, "Near-source" exterior soil gas, Crawl space air, etc.).

3 = **CA DTSC Modified Air Screening Levels:** From the California Department of Toxic Substances Control (DTSC), Office of Human and Ecological Risk (HERO), *Human Health Risk Assessment (HHRA) Note Number 3, Table 3* , Jan 2016 < **https://www.dtsc.ca.gov/AssessingRisk/upload/HHRA-Note-3-2016-01.pdf** >. The Modified Air Screening Levels are divided by the DTSC's Recommended Vapor Attenuation Factor (0.05) to calculate the Risk Level concentration appropriate for the specific sample collected. Where Modified Air Screening Levels are not available, US EPA RSLs (see Note 2 above) are used with the DTSC attenuation factor.

ND = Analyte not detected above the laboratory Method Detection Limit (MDL).

PCE = Tetrachloroethene

cis- 1,2 DCE = cis-1,2 Dichloroethene

< # = Compound not detected at or above the elevated detection limit, X.

^ = PQL and MDL are elevated due to sample dilution

J = Value falls below the PQL and is therefore an estimated value

NE = Not Established

TCE = Trichloroethene

trans- 1,2 DCE = trans-1,2-Dichloroethene

-- = Sample was not analyzed for this constituent

TPH = Total Petroleum Hydrocarbons

BOLD = Analytical result above CA DTSC-Modified COMMERCIAL "Near Source" Threshold Limit.

BOLD = Analytical result above CA DTSC-Modified RESIDENTIAL "Near Source" Threshold Limit.

APPENDIX A

GEOLOGIC LOGS

Geologic Symbols and Terms

	Major Divisions	Symbols	Descriptions
Coarse Grained Soils	Gravels (More than 1/2 of coarse fraction > no. 4 sieve size)	GW	Well Graded Gravels, little or no fines
		GP	Poorly Graded Gravels, little or no fines
		GM	Silty Gravels, gravel-silt mixtures
		GC	Clayey Gravels, gravel-clay mixtures
	Sands (More than 1/2 of coarse fraction < no. 4 sieve size)	SW	Well Graded Sand, little to no fines
		SP	Poorly Graded Sand
		SM	Silty Sand, sand-silt mixtures
		SC	Clayey Sand, sand-clay mixtures
Fine Grained Soils	Silts and Clays Liquid Limit < 50%	ML	Silt or Very Fine Sands, rock flour, with slight plasticity
		CL	Inorganic Clay with high plasticity, lean clay
	Silts and Clays Liquid Limit > 50%	MH	Inorganic Sandy Clay or Silt, elastic silts
		CH	Inorganic Sandy Clay or Silt, with high plasticity, fat clays

Symbols and Terms

- First encountered groundwater
- Stabilized groundwater
- Sample interval
- Soil sample sent to laboratory for targeted analysis
- Water sample sent to laboratory for targeted analysis

Trace = < 5%
Few = 5 - 10%
Little = 15 - 20%
Some = 30 - 45%
Dominantly = > 50%

SOIL DENSITY/CONSISTENCY			
SANDS & GRAVELS	BLOWS/FT.	SILTS & CLAYS	BLOWS/FT.
VERY LOOSE	0 - 4	VERY SOFT	0 - 2
LOOSE	4 - 10	SOFT	2 - 4
MED. DENSE	10 - 30	FIRM	4 - 8
DENSE	30 - 50	STIFF	8 - 16
VERY DENSE	> 50	VERY STIFF	16 - 32
		HARD	> 32

Blow count is the number of blows required to drive a 2-inch diameter California Modified Split-Spoon Sampler the last 12 inches of an 18 inch sample interval by a 140-pound hammer free-falling 30 inches.

Well Construction Details:

- Bentonite Seal
- Cement Seal
- Filter Pack
- Screened Interval

ags = above ground surface bgs = below ground surface
PID = Photo-Ionization Detector ppmv = parts per million by volume
USCS = Unified Soil Classification System

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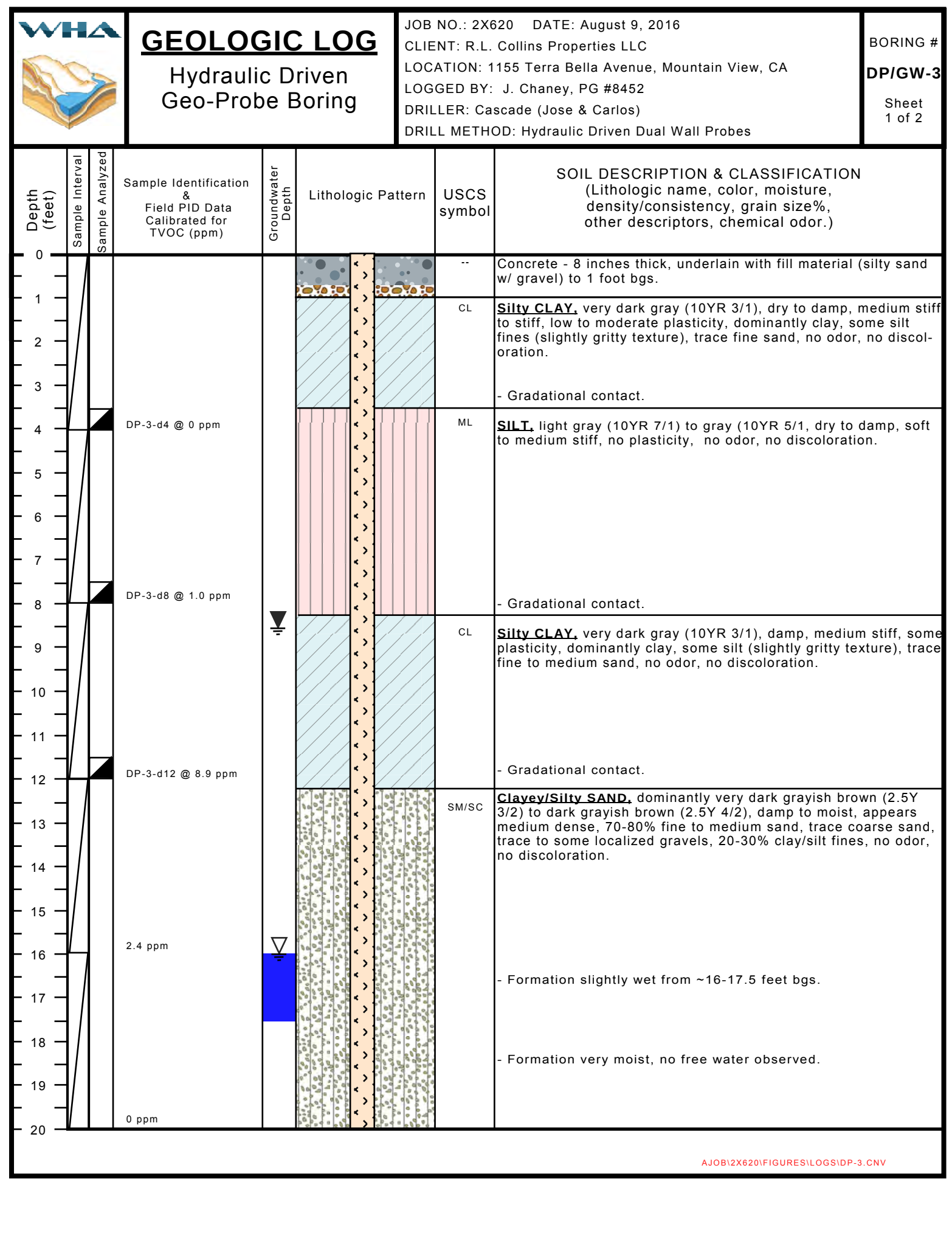
GEOLOGIC LOG

Hydraulic Driven Geo-Probe Boring

JOB NO.: 2X620 DATE: August 9, 2016
CLIENT: R.L. Collins Properties LLC
LOCATION: 1155 Terra Bella Avenue, Mountain View, CA
LOGGED BY: J. Chaney, PG #8452
DRILLER: Cascade (Jose & Carlos)
DRILL METHOD: Hydraulic Driven Dual Wall Probes

BORING # **DP/GW-3**

Sheet 1 of 2



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GEOLOGIC LOG

Hydraulic Driven Geo-Probe Boring

JOB NO.: 2X620 DATE: August 9, 2016
CLIENT: R.L. Collins Properties LLC
LOCATION: 1155 Terra Bella Avenue, Mountain View, CA
LOGGED BY: J. Chaney, PG #8452
DRILLER: Cascade (Jose & Carlos)
DRILL METHOD: Hydraulic Driven Dual Wall Probes

BORING # **DP/GW-3**

Sheet 2 of 2

Depth (feet)	Sample Interval	Sample Analyzed	Sample Identification & Field PID Data Calibrated for TVOC (ppm)	Groundwater Depth	Lithologic Pattern	USCS symbol	SOIL DESCRIPTION & CLASSIFICATION (Lithologic name, color, moisture, density/consistency, grain size%, other descriptors, chemical odor.)
20						SM/SC	**Clayey/Silty SAND,** dominantly very dark grayish brown (2.5Y 3/2) to dark grayish brown (2.5Y 4/2), damp to moist, appears medium dense, 70-80% fine to medium sand, trace coarse sand, trace to some localized gravels, 20-30% clay/silt fines, no odor, no discoloration.
23							- Formation gravelly from ~23-24 feet bgs; wet around gravel clasts.
24			DP-3-d24 @ 4.1 ppm				- Gradational contact.
24						CL	**Silty CLAY,** dark gray (2.5Y 4/4), damp to moist, medium stiff, some plasticity, dominantly clay, some silt (slightly gritty texture), some fine sand, no odor, no discoloration.
27							- Gradational contact.
28			DP-3-d28 @ 2.1 ppm			SM	**Silty SAND,** dark gray (2.5Y 4/4), moist, appears medium dense, 80-90% fine sand, 10-20% silt fines, trace to some clay binder, no odor, no discoloration.
30							- Formation very moist at 30 feet bgs.
31			DP-3-d32 @ 1.4 ppm				- Silt content increasing with depth; moisture content decreasing.
34							- Gradational contact.
34						SC	**Clayey SAND**, dark yellowish brown (10YR 4/6), damp to moist, appears medium dense, 70-80% fine to medium sand, some coarse sand, 20-30% clay fines, no odor, no discoloration.
36			2.0 ppm				
37							- Terminate boring at 36 feet bgs.
38							- Insert 20 feet of 3/4-inch PVC 0.010-slot screen (screened interval from 16 to 36 feet bgs). Collect grab groundwater sample via peristaltic pump and new poly tubing.
39							- Seal borehole with neat cement grout following sample collection.
40							

AJOB\2X620\FIGURES\LOGS\DP-3.CNV

GEOLOGIC LOG

Hydraulic Driven Geo-Probe Boring

JOB NO.: 2X620 DATE: August 9, 2016
CLIENT: R.L. Collins Properties LLC
LOCATION: 1155 Terra Bella Avenue, Mountain View, CA
LOGGED BY: J. Chaney, PG #8452
DRILLER: Cascade (Jose & Carlos)
DRILL METHOD: Hydraulic Driven Dual Wall Probes

BORING # **DP/GW-4**

Sheet 1 of 2

Depth (feet)	Sample Interval	Sample Analyzed	Sample Identification & Field PID Data Calibrated for TVOC (ppm)	Groundwater Depth	Lithologic Pattern	USCS symbol	SOIL DESCRIPTION & CLASSIFICATION (Lithologic name, color, moisture, density/consistency, grain size%, other descriptors, chemical odor.)
0						--	Concrete - 5 inches thick.
1						SP-ML	**Non-Native Fill Sand** **Poorly Graded SAND w/ Silt,** dark brown (10YR 3/3), damp to slightly moist, appears medium dense, 90-95% fine to medium sand (dominantly fine), 5-10% silt fines no odor, no discolor-ation.
2							
3							
4							- Abrupt contact.
5			DP-4-d4.5 @ 0 ppm			ML	**SILT,** light gray (10YR 7/1) to gray (10YR 5/1, dry to damp, soft to medium stiff, no plasticity, no odor, no discoloration.
6							
7							
8			DP-4-d8 @ 0 ppm				- Gradational contact.
9						CL	**Silty CLAY,** very dark gray (10YR 3/1), damp, medium stiff, some plasticity, dominantly clay, some silt (slightly gritty texture), trace fine to medium sand, no odor, no discoloration.
10							
11							- Gradational contact.
12			DP-4-d12 @ 0 ppm			SM/SC	**Clayey/Silty SAND,** dominantly very dark grayish brown (2.5Y 3/2) to dark grayish brown (2.5Y 4/2), damp to moist, appears medium dense, 70-80% fine to medium sand, trace coarse sand, trace localized gravels, 20-30% clay/silt fines, no odor, no dis-coloration.
13							
14							
15							
16			0 ppm				- Formation slightly wet from ~16-17.3 feet bgs.
17							
18							
19							
20			0 ppm				

GEOLOGIC LOG

Hydraulic Driven Geo-Probe Boring

JOB NO.: 2X620 DATE: August 9, 2016
CLIENT: R.L. Collins Properties LLC
LOCATION: 1155 Terra Bella Avenue, Mountain View, CA
LOGGED BY: J. Chaney, PG #8452
DRILLER: Cascade (Jose & Carlos)
DRILL METHOD: Hydraulic Driven Dual Wall Probes

BORING # **DP/GW-4**

Sheet 2 of 2

Depth (feet)	Sample Interval	Sample Analyzed	Sample Identification & Field PID Data Calibrated for TVOC (ppm)	Groundwater Depth	Lithologic Pattern	USCS symbol	SOIL DESCRIPTION & CLASSIFICATION (Lithologic name, color, moisture, density/consistency, grain size%, other descriptors, chemical odor.)
20–24			DP-4-d24 @ 0 ppm			SM/SC	**Clayey/Silty SAND,** dominantly very dark grayish brown (2.5Y 3/2) to dark grayish brown (2.5Y 4/2), damp to moist, appears medium dense, 70-80% fine to medium sand, trace coarse sand, trace localized gravels, 20-30% clay/silt fines, no odor, no discoloration. - Thin (~2-inch thick) gravelly lens at 21 feet bgs; wet around gravel clasts. - Gradational contact.
24–32			DP-4-d27 @ 51.9 ppm DP-4-d31 @ 1340 ppm			CL	**Silty CLAY,** dark gray (2.5Y 4/4), damp to moist, medium stiff, some plasticity, dominantly clay, some silt (slightly gritty texture), no odor, no discoloration. - Very strong solvent odor below ~27 feet bgs; persist to 32 feet bgs. - Formation becomes moist to very moist.

- Terminate boring at 32 feet bgs.

- Insert 20 feet of 3/4-inch PVC 0.010-slot screen (screened interval from 12 to 32 feet bgs). Collect grab groundwater sample via peristaltic pump and new poly tubing.

- Seal borehole with neat cement grout following sample collection.

- Move ~5 feet east and hydropunch to 20 feet bgs for shallower grab groundwater sampling (screened interval from 10-20 feet bgs)

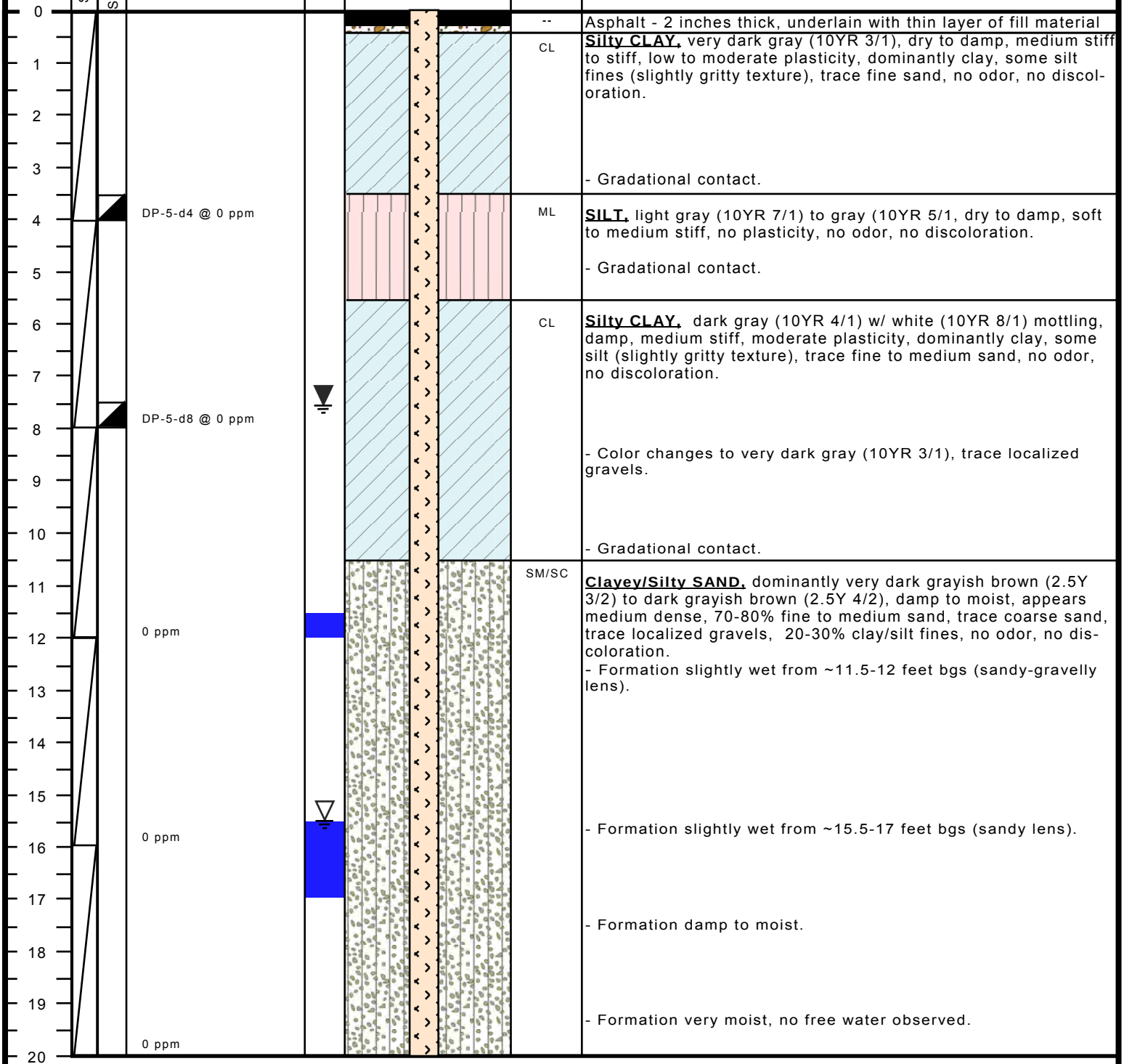
GEOLOGIC LOG

Hydraulic Driven Geo-Probe Boring

JOB NO.: 2X620 DATE: August 10, 2016
CLIENT: R.L. Collins Properties LLC
LOCATION: 1155 Terra Bella Avenue, Mountain View, CA
LOGGED BY: J. Chaney, PG #8452
DRILLER: Cascade (Jose & Carlos)
DRILL METHOD: Hydraulic Driven Dual Wall Probes

BORING # **DP/GW-5**

Sheet 1 of 2



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GEOLOGIC LOG

Hydraulic Driven Geo-Probe Boring

JOB NO.: 2X620 DATE: August 10, 2016
CLIENT: R.L. Collins Properties LLC
LOCATION: 1155 Terra Bella Avenue, Mountain View, CA
LOGGED BY: J. Chaney, PG #8452
DRILLER: Cascade (Jose & Carlos)
DRILL METHOD: Hydraulic Driven Dual Wall Probes

BORING # **DP/GW-5**

Sheet 2 of 2

Depth (feet)	Sample Interval	Sample Analyzed	Sample Identification & Field PID Data Calibrated for TVOC (ppm)	Groundwater Depth	Lithologic Pattern	USCS symbol	SOIL DESCRIPTION & CLASSIFICATION (Lithologic name, color, moisture, density/consistency, grain size%, other descriptors, chemical odor.)
20–24			0 ppm			SM/SC	**Clayey/Silty SAND,** dominantly very dark grayish brown (2.5Y 3/2) to dark grayish brown (2.5Y 4/2), damp to moist, appears medium dense, 70-80% fine to medium sand, trace coarse sand, trace localized gravels, 20-30% clay/silt fines, no odor, no discoloration. - Formation gravelly from ~22-23 feet bgs; coarse grained sand and some gravels. - Gradational contact.
24–27						SC	**Sandy CLAY,** grayish brown (2.5Y 5/2), damp to moist, medium stiff, low plasticity, dominantly clay, 15-25% fine to medium sand, trace coarse sand, no odor, no discoloration. - Gradational contact. Very moist just below contact.
27–32			0 ppm			CL	**Silty CLAY,** dark gray (2.5Y 4/4), damp to moist, medium stiff, some plasticity, dominantly clay, some silt (gritty texture), some fine sand, no odor, no discoloration.

- Terminate boring at 32 feet bgs.

- Insert 20 feet of 3/4-inch PVC 0.010-slot screen (screened interval from 12 to 32 feet bgs). Collect grab groundwater sample via peristaltic pump and new poly tubing.

- Seal borehole with neat cement grout following sample collection.

GEOLOGIC LOG

Hydraulic Driven Geo-Probe Boring

JOB NO.: 2X620 DATE: September 15, 2016
CLIENT: R.L. Collins Properties LLC
LOCATION: 1155 Terra Bella Avenue, Mountain View, CA
LOGGED BY: J. Chaney, PG #8452
DRILLER: Cascade (Fernando & Nerry)
DRILL METHOD: Hydraulic Driven Dual Wall Probes

BORING # **DGW-2**

Sheet 1 of 3

Depth (feet)	Sample Interval	Sample Analyzed	Sample Identification & Field PID Data Calibrated for TCE (ppm)	Groundwater Depth	Lithologic Pattern	USCS symbol	SOIL DESCRIPTION & CLASSIFICATION (Lithologic name, color, moisture, density/consistency, grain size%, other descriptors, chemical odor.)
0						--	Concrete - 5.5 inches thick.
1						CL	**Silty CLAY,** very dark gray (10YR 3/1), dry to damp, medium stiff to stiff, low to moderate plasticity, dominantly clay, some silt fines (slightly gritty texture), trace fine sand, no odor, no discoloration.
2							
3							- Gradational contact.
4			0 ppm			ML	**SILT,** light gray (10YR 7/1) to gray (10YR 5/1), dry to damp, soft to medium stiff, no plasticity, no odor, no discoloration. - Gradational contact.
5						CL	**Silty CLAY,** very dark gray (10YR 3/1), damp, medium stiff, some plasticity, dominantly clay, some silt (slightly gritty texture), trace fine to medium sand, no odor, no discoloration.
6							
7							
8			0 ppm	▼			- Color dominantly very dark grayish brown (10YR 3/2) with gray (10YR 5/1) mottling.
9							
10							- Gradational contact.
11						SM/SC	**Clayey/Silty SAND,** dominantly very dark grayish brown (2.5Y 3/2) to dark grayish brown (2.5Y 4/2), damp to moist, appears medium dense, 70-80% fine to medium sand, trace coarse sand, trace localized gravels, 20-30% clay/silt fines, no odor, no discoloration.
12			0 ppm				
13							
14			Upper water bearing zone	▽			- Formation slightly wet from ~13.9 to 14.9 feet bgs.
15							
16			0 ppm				- Formation very moist to slightly wet.
17							
18							
19							- Formation slightly wet from ~18.8 to 19.5 feet bgs. less than 10% silt (locally - poorly graded sand w/ silt)
20			0.1 ppm				

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GEOLOGIC LOG

Hydraulic Driven Geo-Probe Boring

JOB NO.: 2X620 DATE: September 15, 2016
CLIENT: R.L. Collins Properties LLC
LOCATION: 1155 Terra Bella Avenue, Mountain View, CA
LOGGED BY: J. Chaney, PG #8452
DRILLER: Cascade (Fernando & Nerry)
DRILL METHOD: Hydraulic Driven Dual Wall Probes

BORING # **DGW-2**

Sheet 2 of 3

Depth (feet)	Sample Interval	Sample Analyzed	Sample Identification & Field PID Data Calibrated for TCE (ppm)	Groundwater Depth	Lithologic Pattern	USCS symbol	SOIL DESCRIPTION & CLASSIFICATION (Lithologic name, color, moisture, density/consistency, grain size%, other descriptors, chemical odor.)
20						SM/SC	**Clayey/Silty SAND,** dominantly very dark grayish brown (2.5Y 3/2) to dark grayish brown (2.5Y 4/2), moist to very moist, appears medium dense, 70-80% fine to medium sand, trace coarse sand, trace localized gravels, 20-30% clay/silt fines, no odor, no discoloration. - Gradational contact.
23			Upper water bearing zone 0 ppm			SW-ML	**Well Graded SAND w/ Silt,** dominantly dark yellowish brown (10YR 3/6), wet to saturated, appears medium dense, up to 50-60% coarse sand, 40-50% fine to medium sand, trace fine localized gravels, up to 10% silt fines, no odor, no discoloration. - Gradational contact.
26			0 ppm			SC	**Clayey SAND,** dominantly olive brown (2.5Y 4/4), very moist to slightly wet, appears medium dense, dominantly fine to medium sand, some coarse sand, 10-20% clay, trace fine localized gravels, no odor, no discoloration. - Dominantly fine sand; clay content increasing with depth (~30%) - Gradational contact.
30			0 ppm			CL	**Silty CLAY,** dark gray (2.5Y 4/4), damp to moist, medium stiff, some plasticity, dominantly clay, some silt (slightly gritty texture), trace to some fine sand, trace rootlets, no odor, no discoloration. - No recovery from 32 to 36 feet bgs; liner jammed. - Formation becomes moist to very moist. - Gradational contact.
38			0 ppm				
39			0 ppm			SC	**Clayey SAND,** dominantly olive brown (2.5Y 4/4), moist to very moist, appears medium dense, dominantly fine to medium sand, coarse sand, 25-35% clay, trace fine localized gravels, no odor, no discoloration.
40							

GEOLOGIC LOG

Hydraulic Driven Geo-Probe Boring

JOB NO.: 2X620 DATE: September 15, 2016
CLIENT: R.L. Collins Properties LLC
LOCATION: 1155 Terra Bella Avenue, Mountain View, CA
LOGGED BY: J. Chaney, PG #8452
DRILLER: Cascade (Fernando & Nerry)
DRILL METHOD: Hydraulic Driven Dual Wall Probes

BORING # **DGW-2**

Sheet 3 of 3

Depth (feet)	Sample Interval	Sample Analyzed	Sample Identification & Field PID Data Calibrated for TVOC (ppm)	Groundwater Depth	Lithologic Pattern	USCS symbol	SOIL DESCRIPTION & CLASSIFICATION (Lithologic name, color, moisture, density/consistency, grain size%, other descriptors, chemical odor.)
40						SC	**Clayey SAND,** dominantly olive brown (2.5Y 4/4), moist to very moist, appears medium dense, dominantly fine to medium sand, coarse sand, 25-53% clay, trace fine localized gravels, no odor, no discoloration. - Gradational contact.
41			Lower water bearing zone				
42			0 ppm			GW	**Well Graded Gravel w/ Silt,** dominantly olive brown (2.5Y 4/4), saturated, appears medium dense, 50-60% fine to coarse gravels (up to 0.75 inches; dominantly fine to medium), 35-45% fine to medium sand, some coarse sand, up to 15% silt fines, no odor no discoloration.
43							
44			0 ppm				
45							- Gravel content decreasing with depth (~40-50%)
46			0 ppm				
47							- Gradational contact.
48			0 ppm				**Sandy CLAY,** dominantly olive brown (2.5Y 4/4), moist to very moist, stiff to medium stiff, dominantly clay fines, 30-40% fine to medium sand, trace fine localized gravels, no odor, no discoloration. - Saturated poorly graded sand w/ silt interbed from ~48.5 to 49.4 feet bgs.
49							
50			0 ppm				
51							- Terminate boring at 50 feet bgs.
52							- Insert 10 feet of 3/4-inch PVC 0.010-slot screen - expose screen from 42-50 feet bgs (screened interval from 42-50 feet bgs). Collect grab groundwater sample via peristaltic pump and new poly tubing.
53							
54							- Seal borehole through rods (retraction grout) with neat cement grout following sample collection.
55							
56							
57							
58							
59							
60							

GEOLOGIC LOG

Hydraulic Driven Geo-Probe Boring

JOB NO.: 2X620 DATE: September 16, 2016
CLIENT: R.L. Collins Properties LLC
LOCATION: 1155 Terra Bella Avenue, Mountain View, CA
LOGGED BY: J. Chaney, PG #8452
DRILLER: Cascade (Fernando & Nerry)
DRILL METHOD: Hydraulic Driven Dual Wall Probes

BORING # **DGW-3**

Sheet 1 of 3

Depth (feet)	Sample Interval	Sample Analyzed	Sample Identification & Field PID Data Calibrated for TCE (ppm)	Groundwater Depth	Lithologic Pattern	USCS symbol	SOIL DESCRIPTION & CLASSIFICATION (Lithologic name, color, moisture, density/consistency, grain size%, other descriptors, chemical odor.)
0						--	Concrete - 4 inches thick.
1						CL	**Silty CLAY,** very dark gray (10YR 3/1), dry to damp, medium stiff to stiff, low to moderate plasticity, dominantly clay, some silt fines (slightly gritty texture), trace fine sand, no odor, no discoloration. Gradational contact.
2							
3						ML	**SILT,** light gray (10YR 7/1) to gray (10YR 5/1), dry to damp, soft to medium stiff, no plasticity, no odor, no discoloration.
4			0 ppm				
5							- Gradational contact.
6						CL	**Silty CLAY,** very dark gray (10YR 3/1), damp, medium stiff, some plasticity, dominantly clay, some silt (slightly gritty texture), trace fine to medium sand, no odor, no discoloration.
7				▼			
8			DGW-4-d8 @ 0 ppm				- Color dominantly very dark grayish brown (10YR 3/2) with gray (10YR 5/1) mottling.
9							
10							
11							- Gradational contact.
12			0 ppm			SM/SC	**Clayey/Silty SAND,** dominantly very dark grayish brown (2.5Y 3/2) to dark grayish brown (2.5Y 4/2), damp to moist, appears medium dense, 70-80% fine to medium sand, trace coarse sand, trace localized gravels, 20-30% clay/silt fines, no odor, no discoloration.
13							
14							
15							
16			DGW-4-d16 @ 0 ppm				
17				▽			
18			Upper water bearing zone				- Formation slightly wet from ~17.5 to 17.8 feet bgs.
19							
20			0.3 ppm				

AJOB\2X620\FIGURES\LOGS\DGW-3.CNV

GEOLOGIC LOG

Hydraulic Driven Geo-Probe Boring

JOB NO.: 2X620 DATE: September 16, 2016
CLIENT: R.L. Collins Properties LLC
LOCATION: 1155 Terra Bella Avenue, Mountain View, CA
LOGGED BY: J. Chaney, PG #8452
DRILLER: Cascade (Fernando & Nerry)
DRILL METHOD: Hydraulic Driven Dual Wall Probes

BORING # **DGW-4**
Sheet 2 of 3

Depth (feet)	Sample Interval	Sample Analyzed	Sample Identification & Field PID Data Calibrated for TCE (ppm)	Groundwater Depth	Lithologic Pattern	USCS symbol	SOIL DESCRIPTION & CLASSIFICATION (Lithologic name, color, moisture, density/consistency, grain size%, other descriptors, chemical odor.)
20						SM/SC	**Clayey/Silty SAND,** dominantly very dark grayish brown (2.5Y 3/2) to dark grayish brown (2.5Y 4/2), very damp to moist, appears medium dense, 70-80% fine to medium sand, trace coarse sand, trace localized gravels, 20-30% clay/silt fines, no odor, no discoloration.
21							
22							
23							
24			DGW-4-d24 @ 0 ppm				- Gradational contact.
25						SC	**Sandy CLAY,** dominantly olive brown (2.5Y 4/4), damp, soft to medium stiff, dominantly clay, 35-45% fine to medium sand, no odor, no discoloration.
26							- Color changes to dominantly bluish-gray. Some localized root-lets and coarse sand.
27							
28			DGW-4-d28 @ 0 ppm				- Gradational contact.
29							
30						CL	**Silty CLAY,** dark gray (2.5Y 4/4), damp to moist, medium stiff, some plasticity, dominantly clay, some silt (slightly gritty texture), trace to some fine sand, trace rootlets, no odor, no discoloration.
31							
32			DGW-4-d32 @ 0 ppm				- Becoming sandy above contact. - Gradational contact.
33							
34						SW-ML	**Well Graded SAND w/ Silt,** dominantly dark yellowish brown (10YR 3/6), wet to saturated, appears medium dense, dominantly fine to medium sand, 20-30% coarse sand, trace fine localized gravels, up to 10-15% silt fines, no odor, no discoloration.
35							
36			0 ppm				- Gradational contact.
37						SC	**Sandy CLAY,** dominantly olive brown (2.5Y 4/4), moist to very moist, appears medium dense, dominantly clay, no odor, no dis-coloration.
38							
39							
40			0 ppm				

GEOLOGIC LOG

Hydraulic Driven Geo-Probe Boring

JOB NO.: 2X620 DATE: September 16, 2016
CLIENT: R.L. Collins Properties LLC
LOCATION: 1155 Terra Bella Avenue, Mountain View, CA
LOGGED BY: J. Chaney, PG #8452
DRILLER: Cascade (Fernando & Nerry)
DRILL METHOD: Hydraulic Driven Dual Wall Probes

BORING # **DGW-4**

Sheet 3 of 3

Depth (feet)	Sample Interval	Sample Analyzed	Sample Identification & Field PID Data Calibrated for TVOC (ppm)	Groundwater Depth	Lithologic Pattern	USCS symbol	SOIL DESCRIPTION & CLASSIFICATION (Lithologic name, color, moisture, density/consistency, grain size%, other descriptors, chemical odor.)
40						SC	**Sandy CLAY,** dominantly olive brown (2.5Y 4/4), moist to very moist, appears medium dense, dominantly clay, no odor, no discoloration. - Gradational contact.
41			Lower water bearing zone				
42			0 ppm			GW	**Well Graded Gravel w/ Silt,** dominantly olive brown (2.5Y 4/4), saturated, appears medium dense, 50-60% fine to coarse gravels (up to 0.75 inches; dominantly fine to medium), 35-45% fine to medium sand, some coarse sand, up to 15% silt fines, no odor no discoloration.
43							
44							
45			0 ppm				
46							
47							
48			0 ppm				
49							
50			0 ppm				
51							
52							
53							
54							
55							
56							
57							
58							
59							
60							

- Terminate boring at 50 feet bgs.

- Insert 10 feet of 3/4-inch PVC 0.010-slot screen - expose screen from 40-50 feet bgs (screened interval from 42-50 feet bgs). Collect grab groundwater sample via peristaltic pump and new poly tubing.

- Seal borehole through rods (retraction grout) with neat cement grout following sample collection.

GEOLOGIC LOG

Hydraulic Driven
Geo-Probe Boring
Semi-Permanent Soil Vapor Probe

JOB NO.: 2X620 DATE: August 9, 2016
CLIENT: R.L. Collins Properties LLC
LOCATION: 1155 Terra Bella Avenue, Mountain View, CA
LOGGED BY: J. Chaney, PG #8452
DRILLER: Cascade (Jose & Carlos)
DRILL METHOD: Hydraulic Driven Dual Wall Probes

BORING # **SV-1**
Sheet 1 of 1

Depth (feet)	Sample Interval	Sample Analyzed	Sample Identification & Field PID Data Calibrated for TVOC (ppm)	Groundwater Depth	Lithologic Pattern & Multi-Depth Probe Construction	USCS symbol	SOIL DESCRIPTION & CLASSIFICATION (Lithologic name, color, moisture, density/consistency, grain size%, other descriptors, HC odor.)
0						--	Concrete - 4 inches thick, underlain with non-native base material (clayey silt w/ gravel) to ~ 1 foot bgs
1						CL	**Silty CLAY,** very dark gray (10YR 3/1), dry to damp, medium stiff to stiff, low to moderate plasticity, dominantly clay, some silt fines (slightly gritty texture), trace fine sand, no odor, no discoloration.
2							
3							- Color changes to light gray (10YR 7/1) to gray (10YR 5/1), increase in silt content (gritty, crumbles), no fine sand.
4			0 ppm				
5			SV-1-d5 @ 0 ppm				- Terminate boring at 5.5 feet bgs; construct soil vapor probe as depicted in diagram.
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

GEOLOGIC LOG

Hydraulic Driven
Geo-Probe Boring
Semi-Permanent Soil Vapor Probe

JOB NO.: 2X620 DATE: August 9, 2016
CLIENT: R.L. Collins Properties LLC
LOCATION: 1155 Terra Bella Avenue, Mountain View, CA
LOGGED BY: J. Chaney, PG #8452
DRILLER: Cascade (Jose & Carlos)
DRILL METHOD: Hydraulic Driven Dual Wall Probes

BORING #
SV-2
Sheet
1 of 1

Depth (feet)	Sample Interval	Sample Analyzed	Sample Identification & Field PID Data Calibrated for TVOC (ppm)	Groundwater Depth	Lithologic Pattern & Multi-Depth Probe Construction	USCS symbol	SOIL DESCRIPTION & CLASSIFICATION (Lithologic name, color, moisture, density/consistency, grain size%, other descriptors, HC odor.)
0						--	Concrete - 8 inches thick, underlain with non-native base material (silty sand w/ gravel) to ~1 foot bgs.
1						CL	**Silty CLAY,** very dark gray (10YR 3/1), dry to damp, medium stiff to stiff, low to moderate plasticity, dominantly clay, some silt fines (slightly gritty texture), trace fine sand, no odor, no discoloration.
2							
3							- Gradational contact.
4			0 ppm			ML	**SILT,** light gray (10YR 7/1) to gray (10YR 5/1), dry to damp, soft to medium stiff, no plasticity, no odor, no discoloration.
5			SV-2-d5 @ 0 ppm				
6							- Terminate boring at 5.5 feet bgs; construct soil vapor probe as depicted in diagram.
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

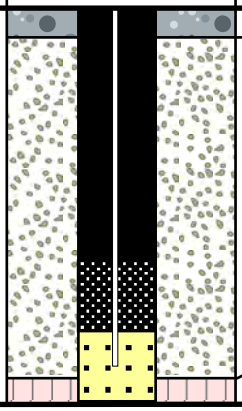
AJOB\2X620\FIGURES\LOGS\SV-2.CNV

GEOLOGIC LOG

Hydraulic Driven
Geo-Probe Boring
Semi-Permanent Soil Vapor Probe

JOB NO.: 2X620 DATE: August 9, 2016
CLIENT: R.L. Collins Properties LLC
LOCATION: 1155 Terra Bella Avenue, Mountain View, CA
LOGGED BY: J. Chaney, PG #8452
DRILLER: Cascade (Jose & Carlos)
DRILL METHOD: Hydraulic Driven Dual Wall Probes

BORING #
SV-3
Sheet
1 of 1

Depth (feet)	Sample Interval	Sample Analyzed	Sample Identification & Field PID Data Calibrated for TVOC (ppm)	Groundwater Depth	Lithologic Pattern & Multi-Depth Probe Construction	USCS symbol	SOIL DESCRIPTION & CLASSIFICATION (Lithologic name, color, moisture, density/consistency, grain size%, other descriptors, HC odor.)
0						--	Concrete - 5 inches thick
1						SP-ML	**Non-Native Fill Sand** **Poorly Graded SAND w/ Silt,** dark brown (10YR 3/3), damp to slightly moist, appears medium dense, 90-95% fine to medium sand (dominantly fine), 5-10% silt fines no odor, no discolor-ation.
4			0 ppm				- Abrupt contact.
5			0 ppm			ML	**SILT,** light gray (10YR 7/1) to gray (10YR 5/1, dry to damp, soft to medium stiff, no plasticity, no odor, no discoloration.
6							- Terminate boring at 5.5 feet bgs; construct soil vapor probe as depicted in diagram.
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

APPENDIX B

SITE HEALTH & SAFETY PLAN

WEBER, HAYES & ASSOCIATES
Hydrogeology and Environmental Engineering
120 Westgate Drive, Watsonville, CA 95076
(831) 722-3580 // www.weber-hayes.com

SITE HEALTH & SAFETY PLAN (SSP)

Drilling, Well Installation & Sampling

This Site Health and Safety Plan has been prepared pursuant to the California Occupational Health and Safety Administration Title 8, Section 5192 *Hazardous Waste Operations and Emergency Response* and the U.S. Occupational Health and Safety Administration 29 CRF 1910.120, *Hazardous Waste Operations and Emergency Response*

Job Name and Job Number: Former Telewave Property – 2X834
Client: Sean Corrigan, Old Trace Partners, LLC
Site Location*:* 1155 Terra Bella Avenue, Mountain View, CA
Type of Facility/Current Usage of Property: Currently vacant – former radio equipment manufacturing & chip/circuit board manufacturer

Subcontractors On-Site

Driven Probe Drilling Contractor (TBD)

*Name:*_____

*Contact:*_____

_____

CPT/MIP Drilling Contractor (TBD)

*Name:*_____

*Contact:*_____

_____

Hollow Stem Auger Drilling Contractor (TBD)

*Name:*_____

*Contact:*_____

_____

Regulatory Agencies

Lead Regulatory Agency
County of Santa Clara
Department of Environmental Health
Case Officer: Travis Flora
1555 Berger Drive, Suite 300
San Jose, CA 95112
Phone Number: (408) 918-3400

SCOPE OF WORK

Additional Site Assessment: Soil, Soil Vapor and Groundwater Sampling

- Advancing up to ten (14) direct push borings to depths of 40 to ~80 feet deep for soil and groundwater sampling.
- Installation and sampling of four (4) soil vapor wells to depths of approximately 14 feet bgs.
- Installation, development and sampling of approximately ten (10) groundwater monitoring wells to depths of approximately 30 and 50 feet bgs.
- Collect two (2) indoor ambient air samples.
- Collect four (4) shallow soil samples (surface and 1 foot bgs)

Key Field Personnel

(OSHA training for Hazardous Waste Operations is required on this job)

Jered Chaney – *Weber, Hayes and Associates*	Environmental Geologist & Site Safety Officer	Office: (831) 722-3580 Cell: (831) 254-1747
TBD Name:_____	Driven Probe Drilling Operator	Cell:_____
TBD Name:_____	CPT/MIP Drilling Operator	Cell:_____
TBD Name:_____	Hollow Stem Auger Drilling Operator	Cell:_____

Anticipated Physical Hazards

- **Noise**: Drill rig (hearing protection required over 85 dBA)
- **Heavy Equipment**: Drill Rigs & Support Trucks
- **Traffic**: Terra Bella right of way (traffic control required)
- **Overhead Hazards**: to be avoided
- **Excavation/Trenches**: none
- **Underground Hazards**: To be located by private utility locator / USA alert
- **Level Of Protection** - Is OSHA training for Hazardous Waste Operations required on this job? No ☒ Yes
- **Hazardous/Regulated Substances Anticipated?** ☐ No; ☒ Yes; (VOCs)

Anticipated Chemical Hazards:

Name (CAS # if applicable)	EXPECTED CONCENTRATION ☒ Soil ☒ Water ☐ Air	HEALTH EFFECTS
▸ Trichloroethylene (TCE) - CAS # 79-01-6 ▸ and breakdown halogenated VOC products (low-level)	▸ Up to 6,600 ppb in groundwater ▸ Up to 72 ppm or lower in soil ▸ Up to 25,000 ppt or lower in soil vapor	See attached NIOSH chemical information sheet

Medical Surveillance

Medical surveillance practices for all on-site employees will be maintained in accordance with Title 8 California Code of Regulations, Section 5192(c)(4)(B). **No personnel will be exposed to potential chemical hazards for more than 30 days at the project site, so no medical surveillance is required.**

Site Control Measures

- General public excluded from all work areas by establishing exclusion zones (i.e., cones and/or barricades with caution tape in work areas).
- Traffic control for work in roadway
- Containment of investigative waste.

Decontamination Procedures: Liquinox solution/ fresh water / D.I. water rinse. Containment of wastewater.

PERSONAL PROTECTIVE EQUIPMENT AND SITE MONITORING

Personal Protective Equipment

(see required Personal Protective Equipment below)

Based on the scope and nature of this field program the following aappropriate level of personal protective equipment is required A: ☐ B: ☐ C: ☐ D ☒

R = required, A = As needed

Hard Hat **A**	Eyewear (type) **A**
Safety Boots **A**	Respirator (type) **A** *(½-face minimum)*
Orange Vest **A**	Filter (type) **A** (organic vapor & particulate)
Hearing Protection **A**	Gloves (type) **A** nitrile
Tyvek Coveralls **A**	

Monitoring Equipment On Site (check those that apply)

Organic Vapor Analyzer HNu	PID with lamp of 10.2 ev X
LEL/Oxygen Meter	Draeger Tube

Confined Space Entry Procedures

Confined space entry is not a component of this field investigation.

PERSONELL TRAINING REQUIREMENTS

All personnel performing on-Site activities who may be exposed to chemical hazards are required to be trained in accordance with CCR, Title 8, Section 5192. As a minimum, all Site personnel will have completed 40-Hour Hazardous Waste Operations (HAZWOPER) training; 24 hours of supervised on the job training; have an eight-hour HAZWOPER refresher course if in initial HAZWOPER 40 hour training course was completed more than one year prior to the start date of Site operations.

Personnel who are only on-Site occasionally for a specific limited task (such as plan review, meetings, land surveying, geographic surveying, asphalt paving electrical work, etc.) and who are unlikely to be exposed over permissible and published exposure limits, shall be informed of the Site hazards in a tail gate safety meeting.

Tailgate Meetings

The Field Superintendent will conduct an initial Tailgate Safety Meeting prior to commencing work at the Site. In addition, the following information will be provided to all Site personnel involved with the project, as applicable:

- Name of personnel and alternate responsible for Site safety and health
- Safety, health, and other hazards present at the Site
- Hospital directions
- General safety procedures and practices to minimize risks from hazards at the Site
- Task specific procedures and practices
- Instructions for safe use of equipment
- Instructions for safe use of personnel protective equipment
- Recognition of symptoms and signs, which might indicate overexposure to hazards
- Site control measures
- Emergency/Contingency procedures

EMERGENCY RESPONSE

In the event of minor physical injury, appropriate first aid will be administered and worker transport to the urgent care/emergency room, if necessary. In the event of significant physical injury beyond the level of first aid response, emergency response personnel will be contacted immediately by calling 911 from the nearest land-line or via cell phone.

Hospital/Clinic: Kaiser Permanente
Santa Clara Medical Center
700 Lawrence Expressway
Santa Clara, CA 95051
Emergency Phone: (408) 851-1000

Fire Department Phone Number: 911

Paramedic Phone Number: 911
Police Department Phone Number: 911

Hospital Directions: See attached directions and accompanying map

Emergency/Contingency Plans and Procedures: Mobile Phone contact with emergency personnel. (831)254-1747

DISCLAIMER AND SIGNATURES

Site Hazard Information Provided By: *Jered Chaney – Site Safety Officer*

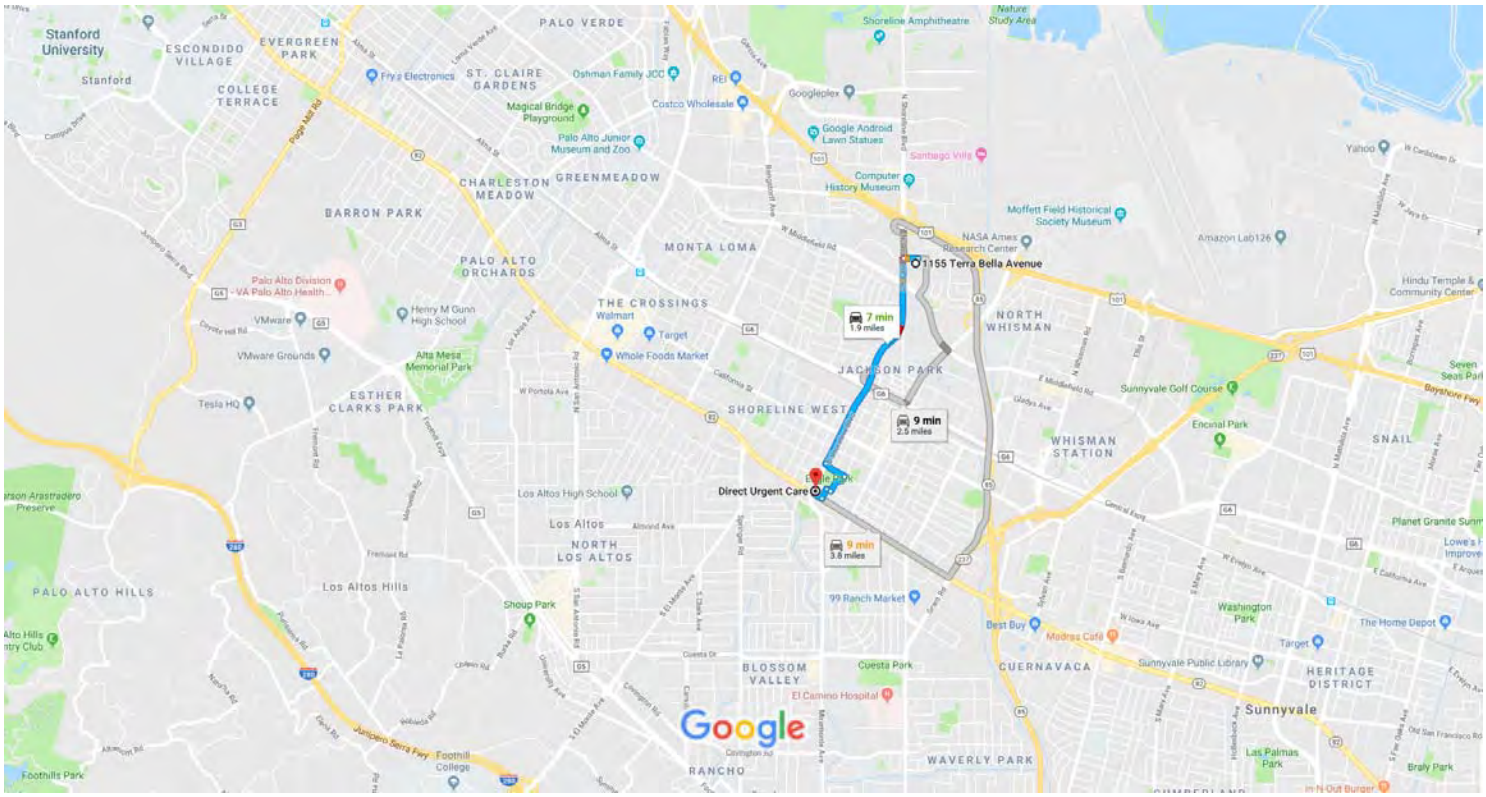
Date: September 17, 2018

Jered Chaney, Site Safety Officer

Note: All contractors and authorized visitors to the site are responsible for maintaining their safety using standard of care construction site safety procedures. This site safety plan is designed to provide worker right to know information on site contaminants of concern and a generic due diligence overview of safety issues. Neither the professional activities of Weber, Hayes and Associates, nor the presence of Weber, Hayes and Associates employees and subcontractors, shall be construed to imply Weber, Hayes and Associates has any responsibility for methods of work performance, superintendence, sequencing of construction, or safety in on or about the job site.

PRINT NAME & INITIAL FOLLOWING TAILGATE MEETING AND SAFETY INSPECTION:

Google Maps 1155 Terra Bella Ave to Direct Urgent Care Drive 1.9 miles, 7 min



Map data ©2018 Google 2000 ft

1155 Terra Bella Ave

Mountain View, CA 94043

1. Head west on Terra Bella Ave

463 ft

2. Turn left onto N Shoreline Blvd

Pass by Jack in the Box (on the right in 0.5 mi)

1.4 mi

3. Turn left onto Church St

0.1 mi

4. Turn right onto Franklin St

0.1 mi

5. Turn right onto High School Way

154 ft

6. Turn left onto Oak St

348 ft

7. Turn right onto El Camino Real

Destination will be on the right

299 ft

Direct Urgent Care

1150 W El Camino Real, Mountain View, CA 94040

Centers for Disease Control and Prevention
Your Online Source for Credible Health Information

NIOSH

September 2010

NIOSH Publication Number 2010-168c

Trichloroethylene

Synonyms & Trade Names Ethylene trichloride, TCE, Trichloroethene, Trilene		
CAS No. 79-01-6	**RTECS No.** KX4550000 (../rtecs/kx456d70.html)	**DOT ID & Guide** 1710 160 (../erg/erg2008/g160.pdf)
Formula $ClCH=CCl_2$	**Conversion** 1 ppm = 5.37 mg/m3	**IDLH** Ca [1000 ppm] See: 79016 (../idlh/79016.html)
Exposure Limits **NIOSH REL** : Ca See Appendix A (nengapdxa.html) See Appendix C (nengapdxc.html) **OSHA PEL** † (nengapdxg.html) : TWA 100 ppm C 200 ppm 300 ppm (5-minute maximum peak in any 2 hours)		**Measurement Methods** **NIOSH** 1022 (../docs/2003-154/pdfs/1022.pdf) , 3800 (../docs/2003-154/pdfs/3800.pdf) ; **OSHA** 1001 (../docs/2003-154/pdfs/1001.pdf) See: NMAM (../docs/2003-154/default.html) or OSHA Methods (../oshamethods/oshameth.htm)

Physical Description Colorless liquid (unless dyed blue) with a chloroform-like odor.

MW: 131.4	**BP:** 189°F	**FRZ:** -99°F	**Sol:** 0.1%	**VP:** 58 mmHg	**IP:** 9.45 eV
Sp.Gr: 1.46	**Fl.P:** ?	UEL(77°F): 10.5%	LEL(77°F): 8%		

Combustible Liquid, but burns with difficulty.

Incompatibilities & Reactivities Strong caustics & alkalis; chemically-active metals (such as barium, lithium, sodium, magnesium, titanium & beryllium)

Exposure Routes inhalation, skin absorption, ingestion, skin and/or eye contact

Symptoms irritation eyes, skin; headache, visual disturbance, lassitude (weakness, exhaustion), dizziness, tremor, drowsiness, nausea, vomiting; dermatitis; cardiac arrhythmias, paresthesia; liver injury; [potential occupational carcinogen]

Target Organs Eyes, skin, respiratory system, heart, liver, kidneys, central nervous system

Cancer Site [in animals: liver & kidney cancer]

Personal Protection/Sanitation (See protection codes (protect.html))
Skin: Prevent skin contact
Eyes: Prevent eye contact
Wash skin: When contaminated
Remove: When wet or contaminated
Change: No recommendation
Provide: Eyewash, Quick drench

First Aid (See procedures (firstaid.html))
Eye: Irrigate immediately
Skin: Soap wash promptly
Breathing: Respiratory support
Swallow: Medical attention immediately

Respirator Recommendations

NIOSH

At concentrations above the NIOSH REL, or where there is no REL, at any detectable concentration:
(APF = 10,000) Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode
(APF = 10,000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus

Escape:
(APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister
Any appropriate escape-type, self-contained breathing apparatus

Important additional information about respirator selection (pgintrod.html#mustread)

See also: INTRODUCTION (pgintrod.html) See ICSC CARD: 0081 (../ipcsneng/neng0081.html) See MEDICAL TESTS: 0236 (../docs/2005-110/nmed0236.html)

APPENDIX C

FIELD METHODOLOGIES

- *Field Methodology for Cone Penetrometer Testing / Membrane Interface Probe (CPT/MIP) Screening*
- *Field Methodology for Hydraulic Driven Probe Sampling*
- *Field Methodology for Shallow Soil Sampling*
- *Field Methodology for Active Soil Gas Sampling*
- *Field Methodology for Indoor and Outdoor Air Sampling*
- *Field Methodology for Monitoring / Remediation Well Installation & Well Development and Post Development Sampling*

Field Methodology for Cone Penetrometer Testing / Membrane Interface Probe (CPT/MIP) Screening

Field Methodology for Cone Penetrometer Testing / Membrane Interface Probe (CPT/MIP) Screening

This Appendix describes field methodologies for conducting soil and/or groundwater screening using cone penetrometer testing (CPT) and membrane interface probe techniques. For the purpose of this investigation we will be conducting both CPT and MIP screening simultaneously at each prescribed screening investigation location described in this *Work Plan*. The CPT/MIP can be deployed from any type of hydraulic driven direct push drill rig (ranging from all-terrain track rigs to confined-space dolly mounts). The CPT/MIP tool is threaded onto the lead drill rod of the drill rig and is advanced via the drill rig at the rate of approximately 2 feet per minute.

This Appendix includes the following procedures/references for conducting CPT/MIP screening that will be employed during this field sampling program:

1. Cone Penetration Testing Procedure
2. Cone Penetration Test Data and Interpretation
3. Pore Pressure Dissipation Tests
4. Membrane Interface Probe Procedures
5. GeoProbe® Membrane Interface Probe (MIP) Standard Operating Procedure

Following borehole screening, the CPT/MIP instruments are retracted from the borehole and the subsequent borehole is completely sealed with neat cement grout from the bottom of the borehole upward via a tremi-pipe to ensure no voids or bridging of the sealing material. If the borehole remains open to within 2 feet of the total exploration depth following retraction of the CPT/MIP instruments, then a PVC tremi-pipe will be inserted to the total borehole depth and neat cement grout will be added through the tremi-pipe as it is slowly retracted from the borehole. If the borehole collapses to depths greater than 2 feet above the base of the total borehole depth following retraction of the CPT/MIP tooling, then a hollow drill pipe equipped with an expendable “knock-out” point will be advanced to the original borehole depth and neat cement grout will be added through the drill pipe as it is slowly retracted from the borehole.

Cone Penetration Testing Procedure

(CPT)

Gregg Drilling & Testing, Inc. carries out all Cone Penetration Tests (CPT) using an integrated electronic cone system, Figure CPT. The soundings are conducted using a 20 ton capacity cone with a tip area of 15 cm^2 and a friction sleeve area of 225 cm^2. The cone is designed with an equal end area friction sleeve and a tip end area ratio of 0.80.

The cone takes measurements of cone bearing (q_c), sleeve friction (f_s) and dynamic pore water pressure (u_2) at 5-cm intervals during penetration to provide a nearly continuous hydrogeologic log. CPT data reduction and interpretation is performed in real time facilitating on-site decision making. The above mentioned parameters are stored on disk for further analysis and reference. All CPT soundings are performed in accordance with revised (2002) ASTM standards (D 5778-95).

The cone also contains a porous filter element located directly behind the cone tip (u_2), Figure CPT. It consists of porous plastic and is 5.0mm thick. The filter element is used to obtain dynamic pore pressure as the cone is advanced as well as Pore Pressure Dissipation Tests (PPDT's) during appropriate pauses in penetration. It should be noted that prior to penetration, the element is fully saturated with silicon oil under vacuum pressure to ensure accurate and fast dissipation.

When the soundings are complete, the test holes are grouted using a Gregg Drilling support rig. The grouting procedure consists of pushing a hollow CPT rod with a "knock out" plug to the termination depth of the test hole. Grout is then pumped under pressure as the tremie pipe is pulled from the hole. Disruption or further contamination to the site is therefore minimized.

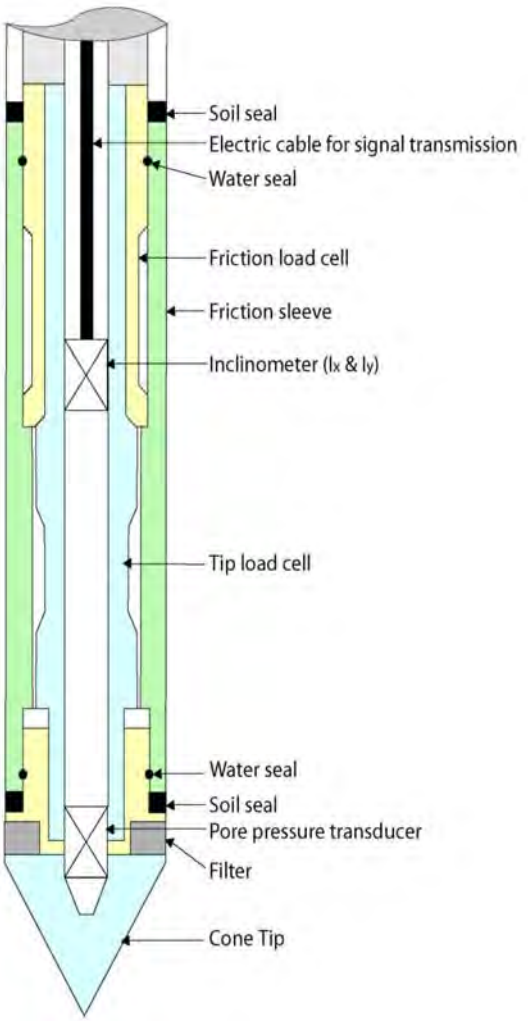


Figure CPT

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Cone Penetration Test Data & Interpretation

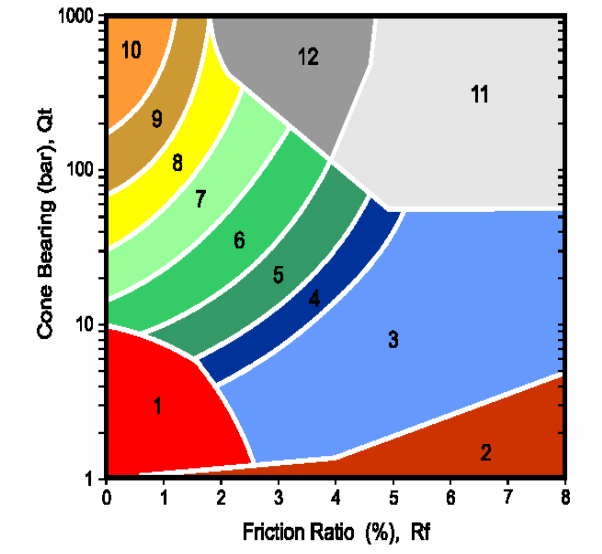
The Cone Penetration Test (CPT) data collected from your site are presented in graphical form in the attached report. The plots include interpreted Soil Behavior Type (SBT) based on the charts described by Robertson (1990). Typical plots display SBT based on the non-normalized charts of Robertson et al (1986). For CPT soundings extending greater than 50 feet, we recommend the use of the normalized charts of Robertson (1990) which can be displayed as SBTn, upon request. The report also includes spreadsheet output of computer calculations of basic interpretation in terms of SBT and SBTn and various geotechnical parameters using current published correlations based on the comprehensive review by Lunne, Robertson and Powell (1997), as well as recent updates by Professor Robertson. The interpretations are presented only as a guide for geotechnical use and should be carefully reviewed. Gregg InSitu and Gregg Drilling & Testing Inc. do not warranty the correctness or the applicability of any of the geotechnical parameters interpreted by the software and do not assume any liability for any use of the results in any design or review. The user should be fully aware of the techniques and limitations of any method used in the software.

Some interpretation methods require input of the groundwater level to calculate vertical effective stress. An estimate of the in-situ groundwater level has been made based on field observations and/or CPT results, but should be verified by the user.

A summary of locations and depths is available in Table 1. Note that all penetration depths referenced in the data are with respect to the existing ground surface.

Note that it is not always possible to clearly identify a soil type based solely on q_t, f_s, and u_2. In these situations, experience, judgment, and an assessment of the pore pressure dissipation data should be used to infer the correct soil behavior type.

(After Robertson, et al., 1986)



ZONE		SBT
1		Sensitive, fine grained
2		Organic materials
3		Clay
4		Silty clay to clay
5		Clayey silt to silty clay
6		Sandy silt to clayey silt
7		Silty sand to sandy silt
8		Sand to silty sand
9		Sand
10		Gravely sand to sand
11		Very stiff fine grained*
12		Sand to clayey sand*

*over consolidated or cemented

Figure SBT

GREGG

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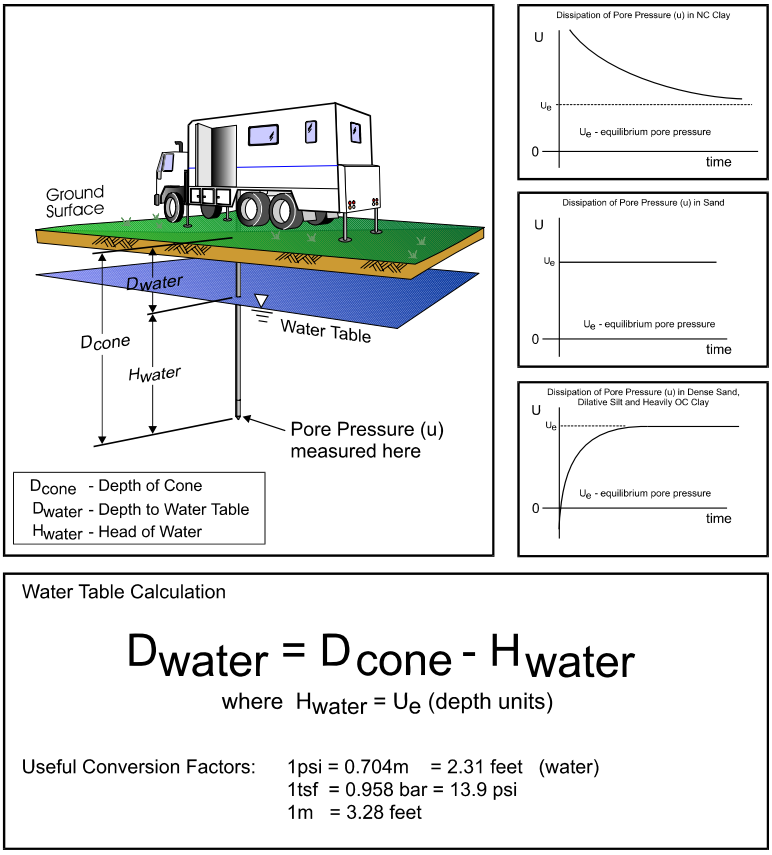
Pore Pressure Dissipation Tests (PPDT)

Pore Pressure Dissipation Tests (PPDT's) conducted at various intervals measured hydrostatic water pressures and determined the approximate depth of the ground water table. A PPDT is conducted when the cone is halted at specific intervals determined by the field representative. The variation of the penetration pore pressure (*u)* with time is measured behind the tip of the cone and recorded by a computer system.
Pore pressure dissipation data can be interpreted to provide estimates of:

- Equilibrium piezometric pressure
- Phreatic Surface
- In situ horizontal coefficient of consolidation (c_h)
- In situ horizontal coefficient of permability (k_h)

In order to correctly interpret the equilibrium piezometric pressure and/or the phreatic surface, the pore pressure must be monitored until such time as there is no variation in pore pressure with time, *Figure PPDT*. This time is commonly referred to as t_{100}, the point at which 100% of the excess pore pressure has dissipated.

A complete reference on pore pressure dissipation tests is presented by Robertson et al. 1991.



Water Table Calculation

$$D_{water} = D_{cone} - H_{water}$$

where $H_{water} = U_e$ (depth units)

Useful Conversion Factors: 1psi = 0.704m = 2.31 feet (water)
1tsf = 0.958 bar = 13.9 psi
1m = 3.28 feet

Figure PPDT

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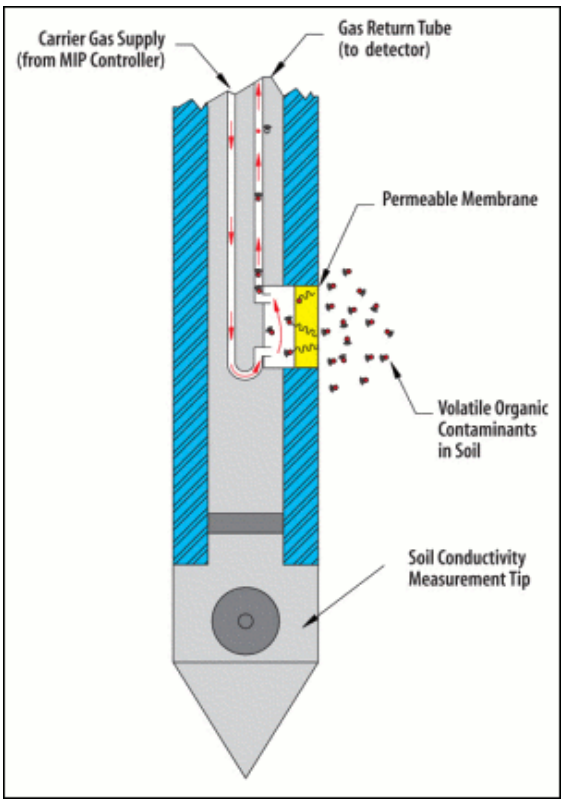
Field Methodology for Membrane Interface Probes (MIP)

Using Hydraulic Driven Direct Push Drilling Techniques

THE INFORMATION PROVIDED IN THIS FIELD METHODOLOGY HAS BEEN GLEANED IN PART FROM THE MANUFACTURER OF THE MIP, GEOPROBE ®

The Membrane Interface Probe (MIP) is a multipurpose tool for mapping soil and groundwater contamination, specifically volatile organic compounds (VOCs) such as halogenated solvents / chlorinated VOCs (cVOCs) and petroleum compounds. The MIP can be deployed from any type of hydraulic driven direct push drill rig (ranging from all-terrain track rigs to confined-space dolly mounts). The MIP tool is threaded onto the lead drill rod of the drill rig and the heating element and gas carrier and return line are run through the center of the hollow drill rods to the surface (trunkline system) where they are connected to the sensor detection system. The MIP is advanced via the drill rig at the rate of approximately 2 feet per minute and can collect approximately 20 sample readings per foot.



The MIP Principle of Operation. The downhole, permeable membrane serves as an interface to a detector at the surface. Volatiles in the subsurface diffuse across the membrane and partition into a stream of carrier gas where they can be swept to the detector. The membrane is heated so that travel by VOCs across this thin film is almost instantaneous. MIP acquisition software logs detector signal with depth.

The MIP is a screening tool with semi-quantitative capabilities acting as an interface between the contaminants in the subsurface and gas phase detectors at the surface (see Figure at right). The membrane is semi-permeable and is comprised of a thin film polymer impregnated into a stainless steel screen for support. The membrane is approximately 6.35mm. The membrane is placed in a heated block attached to the probe. This block is heated to approximately 100-120 degrees Celsius and is raised at the leading edge to protect the membrane. Heating the block helps accelerate diffusion of the contaminant through the membrane.

Diffusion occurs because of a concentration gradient between the contaminated soil/groundwater and the clean carrier gas behind the membrane. The VOC mass is extracted across a semi-permeable membrane and carried to the surface by an inert purge gas at a constant flow of 35-45 milliliters per minute (mL/min) via small diameter inert tubing which carries the contaminants to the gas phase detectors at the surface. Travel time from the membrane interface to the detector(s) is approximately 30-45 seconds (depending on the length of trunkline and flow rate). Once the compounds reach the surface they are analyzed by a suite of three laboratory grade detectors.

The sensor detection system includes:

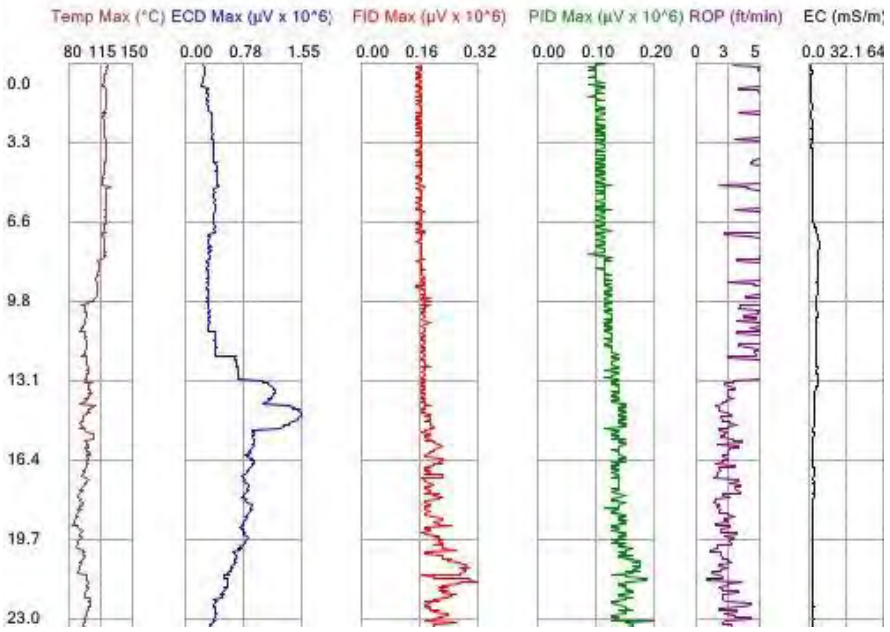
- Photo Ionization Detector (PID)
- Flame Ionization Detector (FID)
- Electron Capture Detector (ECD)

Together, these three detectors offer a range of sensitivities and a means of discriminating different classes of compounds – anything from chlorinated solvents to gasoline hydrocarbons to methane soil gas. The use of multiple detectors is important for separating different types of contamination such as petroleum (e.g., retail gasoline station) from chlorinated solvents (e.g., dry cleaner facility). The ECD is used for chlorinated (e.g., TCE, PCE) contaminant detection, PID is best used for the detection of aromatic hydrocarbons (e.g., BTEX compounds), and the FID is best used for straight chained hydrocarbons (e.g., methane, butane). These detectors may be used in series with the least destructive detector being first and the most destructive detector coming last. The MIP system can process four detector signals at one time. The complementary range of performance of the different detectors enables the system to function from low contaminant levels to near NAPL levels. The detectors have a minimum detection resolution of approximately 0.1 milligram per kilogram (mg/kg) or 100 micrograms per liter (µg/L) for VOCs in soil and groundwater, respectively.

The MIP also includes an integrated Electrical Conductivity (EC) probe to provide indication of general soil particle size which can help determine zones of sands, silts, and clays. The EC logs

can help define zones of lower conductivity (i.e., higher permeability), which may correlate with movement and distribution of contaminants into the subsurface.

The detector information and the electrical conductivity of the soil are graphed via GeoProbe ® FC4000 field instrument (see example graph at right). This instrument allows the operator to determine the location of the contaminant, the relative concentration of the contaminant and the soil/groundwater zone in which the contaminant is located. The MIP log can be used to help determine contaminant "hot spot" zones in the subsurface and generally characterize the vertical and lateral distribution of contaminants in the subsurface.

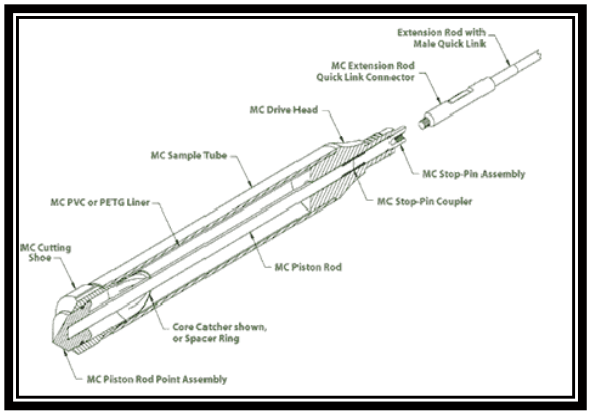


Field Methodology for Hydraulic Driven Probe Sampling

Field Methodology for Hydraulic Driven Probes

Using Macro-Core®, Large Bore® or Dual Tube® Hydraulic Driven Probes

Direct push exploratory borings are "drilled" with a Hydraulic Driven Probe drill rig, which hydraulically vibrates and drives steel probes into the soil. This sampling technology has the ability for either continuous or discrete sampling using a 4-foot long nickel-plated sampling probes fitted with clear acetate liners. During coring operations, the sampler remains open as it is driven into undisturbed soil over its entire 4-foot sampling interval.



The soil cores are logged by an experienced geologist using the Unified Soil Classification System (USCS), noting in particular, the lithology of the soils, moisture content, and any unusual odor or discoloration. Relatively undisturbed soil samples are obtained for both lithologic logging and laboratory analysis. A portion of individual soil cores are stored in sealed plastic bags for field screening of hydrocarbons and/or volatile organic compounds by a Photoionization Detector (PID). Vapor readings in parts per million (ppm) are recorded on the boring logs. The PID is also used during drilling for monitoring the work area for site safety.



All drilling equipment is decontaminated prior to arriving on-site to prevent possible transfer of contamination from another site. The sampling probe and all other soil sampling equipment are thoroughly cleaned between each borehole by washing in a Liqui-Nox or Alconox solution followed by a double rinsing with distilled water to prevent the transfer of contamination.

Following sample collection the borehole borehole is completely sealed with neat cement grout from the bottom of the borehole upward via a tremi-pipe to ensure no voids or bridging of the sealing material. If the borehole remains open to within 2 feet of the total exploration depth following retraction of the sample barrel, then a PVC tremi-pipe will be inserted to the total borehole depth and neat cement grout will be added through the tremi-pipe as it is slowly

retracted from the borehole. If the borehole collapses to depths greater than 2 feet above the base of the total borehole depth following retraction of the sample barrel, then a hollow drill pipe equipped with an expendable "knock-out" point will be advanced to the original borehole depth and neat cement grout will be added through the drill pipe as it is slowly retracted from the borehole.

Samples Targeted for Laboratory Analysis:

Soil samples targeted for laboratory analysis are immediately cut from the acetate sample liner and protected at both ends with Teflon tape, sealed with non-reactive caps, taped, labeled, placed in a plastic Ziploc baggie, and immediately stored in an insulated container chilled to a temperature of 4 degree Celsius. Soil samples selected for Volatile Organic Compound (VOC) analysis will follow field preservation protocols according to EPA Method 5035, as described in DTSC's *Guidance Document for the Implementation of United States Environmental Protection Agency Method 5035: Methodologies for Collection, Preservation, Storage, and Preparation of Soils to be Analyzed for Volatile Organic Compounds*, dated November 2004.

Discrete groundwater samples are collected after temporary PVC casing is placed in the hole and at least one borehole volume of groundwater in the PVC casing is purged and groundwater is visually observed to be free of sediment. Relatively representative groundwater samples are either: 1) collected with a peristaltic pump and dedicated polyethylene tubing and dispensed directly into containers specifically prepared for the analyses (groundwater encountered at depths of less than 27 feet bgs) or 2) collected by mechanically lifting groundwater through a clean stainless steel foot valve and dedicated polyethylene and dispensed directly into containers specifically prepared for the analyses (groundwater encountered at depths greater than 27 feet bgs where a peristaltic pump cannot be used). Samples being analyzed for dissolved metals will be preserved and acidified by the testing laboratory following their receipt of samples. Once collected, groundwater sample containers are placed in Ziploc bags and are stored in an insulated container chilled to a temperature of 4 degree Celsius.

All samples are transported in chilled coolers to a State-certified laboratory under appropriate chain-of-custody documents. Soil samples that may be put on "hold" for potential future analysis will be stored in a dedicated sample freezer, be frozen, and stored under chain-of-custody documentation. Hold times will be confirmed with the testing laboratory to ensure that potential analysis of any "hold" samples will be analyzed within the laboratory hold times.

Field Methodology for Shallow Soil Sampling

Field Methodology for Shallow Soil Sampling

This following provides detailed descriptions of methods used during shallow soil sampling investigations. Included are specifications for shallow soil sampling with a slide hammer, and decontamination procedures.



Shallow Soil Sampling Procedures: A backhoe, two person power auger, or a hand auger is used to get to a point immediately above the sampling depth.

Once at the desired sampling depth, a slide hammer is used to drive a clean stainless steel liner encased in the slide hammer sampling shoe to obtain a relatively undisturbed sample. The slide hammer consists of a metal rod with one end containing a threaded sampling shoe containing a beveled cutting head. A pre-cleaned brass or stainless steel sample liner is installed within the sampling shoe prior to sampling. The slide hammer consists of a weighted sliding handle which slides up and down a connecting rod, and which is used to drive the sampling shoe into undisturbed, native soils. The handle is manually slid up and down the slide rod which in turn forces the sampling shoe (with liner) into native soils.

Materials retrieved from the sampler is be logged on an as-needed basis by the experienced field geologist using the Unified Soil Classification System (USCS), noting in particular, the lithology of the soils, moisture content, and any unusual odor or discoloration. The liner and relatively undisturbed soils is then be removed from the sampling shoe, protected at both ends with Teflon tape, sealed with non-reactive caps, taped, and immediately stored in an insulated container cooled with blue ice at a temperature of 4 degree Celsius or less. Samples targeted for analysis are transported under appropriate chain-of-custody documentation to a State-certified laboratory performing the targeted analysis.

Upon completion of sampling at the designated location, the location will be backfilled and compacted with the materials that were removed prior to sampling, supplemented by clean imported fill as necessary.

Soil samples selected for Volatile Organic Compound (VOC) analysis will follow field preservation protocols according to EPA Method 5035, as described in DTSC's *Guidance Document for the Implementation of United States Environmental Protection Agency Method 5035: Methodologies for Collection, Preservation, Storage, and Preparation of Soils to be Analyzed for Volatile Organic Compounds*, dated November 2004.

Equipment Decontamination and Containerization Procedures: All sampling equipment is cleaned prior to arriving on site to prevent possible transfer of contamination from another site. In areas suspected of having contamination, sampling equipment is thoroughly cleaned between each sampling runs with Alconox ® solution (or equivalent) followed by a double rinsing with distilled water to prevent the vertical transfer of contamination, and/or contamination from location to location onsite. Accordingly, all sampling equipment will be cleaned following sampling operations to prevent the possible transfer of contamination. All cleaning rinsate, and wash water produced during the shallow soil sampling and decontamination process will be containerized on site in pails or approved DOT drums until profiling determines appropriate disposal options.

Field Methodology for Active Soil Gas Sampling

Field Methodology for Active Soil Gas Sampling

The active soil gas / soil vapor (we use the terms interchangeably) sampling field methodology is conducted in general accordance with the procedures outlined in the CalEPA's/DTSC/LARWQCB/SFRWQCB *Advisory – Active Soil Gas Investigations* (July 2015), and the DTSC/CalEPA's final *Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance)* (October 2011). We use the terms soil gas and soil vapor interchangeably. The field methodology for soil vapor sampling entails:

- Constructing Soil Vapor Sample Points and Purge Test Points (if necessary);
- Purge volume testing at the Purge Test Point(s);
- Setting up the sampling and leak testing equipment; and
- Soil Vapor Sampling

Constructing & Decommissioning Soil Vapor Sample and Purge Test Probes

Soil vapor sample probes can be either semi-permanent or temporary. A semi-permanent sample probe is constructed with a secure surface completion consisting of bolt-down flush-mounted well vault so it can be reused. A field geologist or engineer logs the soils encountered using the Unified Soil Classification System (USCS), unless the site is already well characterized geologically.



Shallow soil vapor probe installation via GeoProbe drill rig

Shallow Soil Vapor Probe: The soil vapor/gas probe is installed to the target sampling depth via a Geo-Probe drill rig, which hydraulically drives and vibrates steel probes into the soil. The soil is cored out using a 4-foot long nickel-plated sampling barrel fitted with a clear acetate liner. During coring operations, the sample barrel remains open as it is driven into undisturbed soil over its entire 4-foot sampling interval. Alternatively, the soil gas probe borehole can be created via a hollow stem auger or hand auger. Shallow soil gas / soil vapor sample depths will be no less than 5 feet deep (if possible) in order to avoid breakthrough of ambient air from the surface. Shallow and deeper soil gas probes are constructed in a similar manner. Once the probe hole is cored to the desired sample depth, a length of 3/16–inch inner diameter Teflon or Nylaflo tubing having a porous media tip (i.e., ceramic filter stone) attached at the down-hole end of the tubing is inserted through a 1-inch diameter tremi-pipe that runs the entire length of the borehole. This sample tubing is placed approximately 6-inches above the base of the

borehole. A minimum of a one-foot sand pack is emplaced at the base of the borehole (the grain size of the sand pack is larger than the grain size of the adjacent formation), followed by at least one foot of dry granular bentonite. The probe tip is emplaced midway within the sand pack. The tremi-pipe is used to insert the sand pack and granular bentonite to ensure that no bridging occurs. The remainder of the borehole is sealed to the ground surface with hydrated bentonite gel for temporary probes or neat cement mixed with 1% – 5% bentonite, which are both pre-mixed at the ground surface; this ensures a sound surface seal and/or seal between multi-depth nested probe sample intervals.

Decommissioning Shallow Soil Vapor Probes: Following sample collection the vapor probe is properly decommissioned by one of the following regulatory approved techniques:

- The sample tubing is completely removed from the ground surface (if possible) allowing the bentonite gel slurry to flow into the small vertical void thereby sealing the borehole. Subsequently, approximately 6-inches of bentonite slurry is removed below the ground surface and the surface is patched to match the existing grade.
- The sample tubing is properly destroyed by injecting neat cement grout into the tubing via a syringe. The volume of grout injected into the tubing is monitored to ensure that the entire tubing is completely sealed. Subsequently, the tubing is cut off approximately 6-inches below the ground surface and the surface is patched to match the existing grade.
- The vapor probe is properly destroyed by over-drilling the sample tubing and annular seal material. Once the material has been removed, the subsequent borehole is filled with neat cement grout to within about 6-inches of the ground surface and the surface is patched to match the existing grade.

Sub-Slab Soil Vapor Probe: The emplacement of the sub-slab soil vapor sampling probe is conducted by coring a 1 to 1-1/4-inch diameter hole via an electric hand rotary hammer drill through the slab foundation. The sub-slab borehole is advanced approximately 3 to 4-inches below the base of the slab and into the sub-slab material. Once the probe hole is cored to the desired sample depth a length of 3/16–inch inner diameter Teflon or Nylaflo or inert, cleaned metal tubing with a porous media tip (i.e., ceramic filter stone) attached at the down-hole end of the tubing is inserted into the borehole. The probe tip is emplaced 1 to 2-inches above the base of the bore hole. A minimum of 2 to 4-inches of sand pack is emplaced at the base of the borehole followed by at least 1 to 2-inches of dry granular bentonite to above the base of the slab. The probe tip is emplaced midway within the sand pack. The remainder of the borehole is sealed to the ground surface with hydrated bentonite for temporary probes or hydrated bentonite followed by neat cement for permanent probes to ensure a sound surface seal. Permanent probes have a flush-mount inert metal fitting for providing a good seal when

connecting the above-ground sample tubing and for plugging between sampling events. Following sample collection from a temporary probe the sample tubing is removed and the subsequent void is sealed with hydrated bentonite and the surface is patched with concrete.

Purging

Prior to soil gas sample collection, a purge volume or "dead space volume" will be calculated in order to purge ambient or stagnant air from the sampling system to ensure that collected samples are representative.

Per the procedures outlined in the CalEPA's Advisory, a default of three purge volumes will be extracted prior to sampling. The purge volume consists of approximately three system volumes (i.e. tubing and annular space) of soil gas, while capturing the purge effluent. One system volume is calculated by summing the inner diameter (id) tubing volume (i.e., id area times the length of tubing) and the annular pore space volume (i.e., area of the borehole times the length of sand pack and granular bentonite surrounding the ceramic filter stone tip times an estimated sand-pack pore space volume of 33.8%). The purge rate will be conducted at the same rate soil gas is sampled (approximately 200-mL/min flow). We note that Cal-EPA guidance recommends purging or sampling at rates between 100 to 200-mL/min for soil vapor probes at all depths, including sub-slab vapor probes, to limit air stripping and to prevent ambient air form diluting the sample. After the specific pre-determined purge volume is removed, a soil vapor/gas sample is collected for laboratory analyses for the site specific target compounds as discussed below.

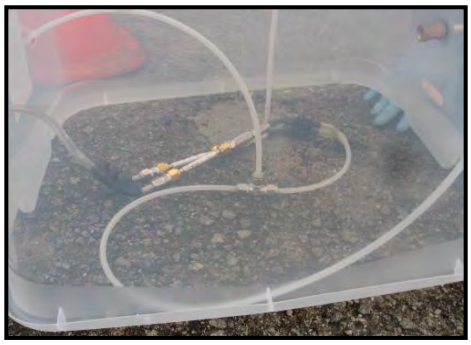
Sample Collection

Before purging the appropriate "dead space volume" from the soil vapor/gas probe, the probe seal is allowed to cure and the subsurface is allowed to equilibrate for the appropriate amount of time per the procedures outlined in the CalEPA's Advisory. We note that an equilibration time of 2-hours is required for soil vapor/gas probes installed via a direct push drill rig and 48-hours for soil vapor/gas probes installed via a hollow stem auger drill rig, hand-auger, or an electric hand rotary hammer drill. Once the appropriate "dead space volume" has been purged, the sample tubing will be attached to a laboratory prepared soil vapor manifold and 1 or 6-liter Summa canister or sorbent sampling media depending on required laboratory analysis. We note that the choice between using a 1-L or 6-L canister is typically dependent on the purpose of the site investigation. However, for soil vapor/gas samples collected at a depth less than 5-feet, including sub-slab vapor probes, a 1-L canister should be used to avoid excessive air removal and to prevent ambient air from entering the sub-surface and sample. When sampling for ambient indoor air, a 6-L canister is nearly always required because of the extremely low detection limits required to meet Indoor Air ESLs. For soil vapor collection, a 1-L

canister may be all that is necessary if the site is known to contain high concentrations of contaminants of interest that make achieving low detection limits a secondary concern. In those cases, only a small volume of the 1-L collected is necessary for analysis of both the TO-15 and the TO-3 compounds. However, if a site does not have historical data indicating that it is significantly contaminated, or if multiple analytical runs become necessary to achieve reporting limit/CHHSL/ESL goals, it becomes critical to have a larger initial volume of collected sample. A 6-L volume allows the laboratory to provide the lowest possible detection for the compounds of interest for full list TO-15 while providing enough volume for the additional analysis of individual compounds that may require dilution to bring them within the instrument calibration range. The 6-L volume will provide enough residual sample to analyze for additional contaminants (e.g., EPA Method TO-3) and/or fixed Gases (ASTM D1946) including Helium, which may be used as a tracer or leak check compound in the investigation. A consultation with the selected testing laboratory will be conducted for each investigation to ensure that appropriate sample volumes are obtained.



Sample collection with Summa canisters



Sample collection with sorbent tube

The following sample collection procedures are followed for each sample collection media:

- The Summa canisters will be supplied by the analytical laboratory with a vacuum of approximately 30-inches of mercury and outfitted with a 200-mL/min flow control valve. The tubing will be connected to the soil vapor manifold and Summa canister using airtight stainless-steel or brass fittings. The flow control valve will then be opened slowly to draw the vapor sample from the target depth.
- Laboratory sorbent media and canister with a vacuum of approximately 30-inches of mercury and outfitted with a 200- mL/min flow control valve or sampling pump (10 to 200 mL/min) will be supplied by the analytical laboratory. The tubing will be connected to the sorbent media sample tube, upstream of the vacuum canister/sample pump/syringe using airtight stainless-steel or brass fittings. The sample vacuum canister/ pump/syringe will then be activated to draw approximately 1 to 3-L of sample volume for TO-17 analysis from the target depth at a flow rate of 200- mL/min or less per sorbent media sample tube manufacturer and/or laboratory guidelines.

Schematic diagrams of sample configurations for the different sampling media (i.e., Summa canister and sorbent media) and probe construction (i.e., shallow soil and sub-slab) are included as attachments 1, 2, and 3 of this field methodology.

Leak Detection Monitoring



Monitoring leak check compound within shroud during sample collection

Leak detection monitoring will be conducted during soil gas sampling by applying a tracer compound (i.e., isopropyl alcohol [isopropanol, IPA] or helium) to the sample system connections and bentonite seal. Specifically, a shroud will be used to encapsulate the entire system (i.e., the sample canister and surface bentonite seal) so as to trap the applied tracer compound. The leak detection monitoring configuration is graphically depicted on attachments 1, 2, and 3 of this field methodology. The concentration of the leak check compound within the shroud will be monitored periodically throughout the sample collection period with a PID calibrated to the specific tracer gas compound and these values will be recorded into the field notes. The tracer compound (i.e., IPA or helium) is maintained within the shroud at a concentration of approximately two (2) orders of magnitude higher than the detection limit of the field meter used throughout the duration of sample collection. The testing laboratory will screen for this compound in all analyzed air samples when IPA is used. If helium is used the laboratory can screen for this compound if collected in Summa canisters, or the sample effluent after passing through the sorbent media will be field screened for the presence of the helium.

Prior to purging and sample collection, a “shut-in test” is performed to check the above-ground sample system connections downstream from the top of the soil vapor/gas probe, including the laboratory provided sample manifold (“sample train”). The “shut-in test” is completed in the field by closing off all valves to the laboratory provided soil vapor manifold and the soil vapor/gas probe tubing, and subsequently opening the valve to the connected “purge” Summa canister to increase the vacuum in the sample train to a minimum of 100-inches of water, at which point the purge canister is closed. Then the vacuum gauge on the sample train is observed for at least 1-minute to confirm it remains stable.

Low Flow Sampling Conditions

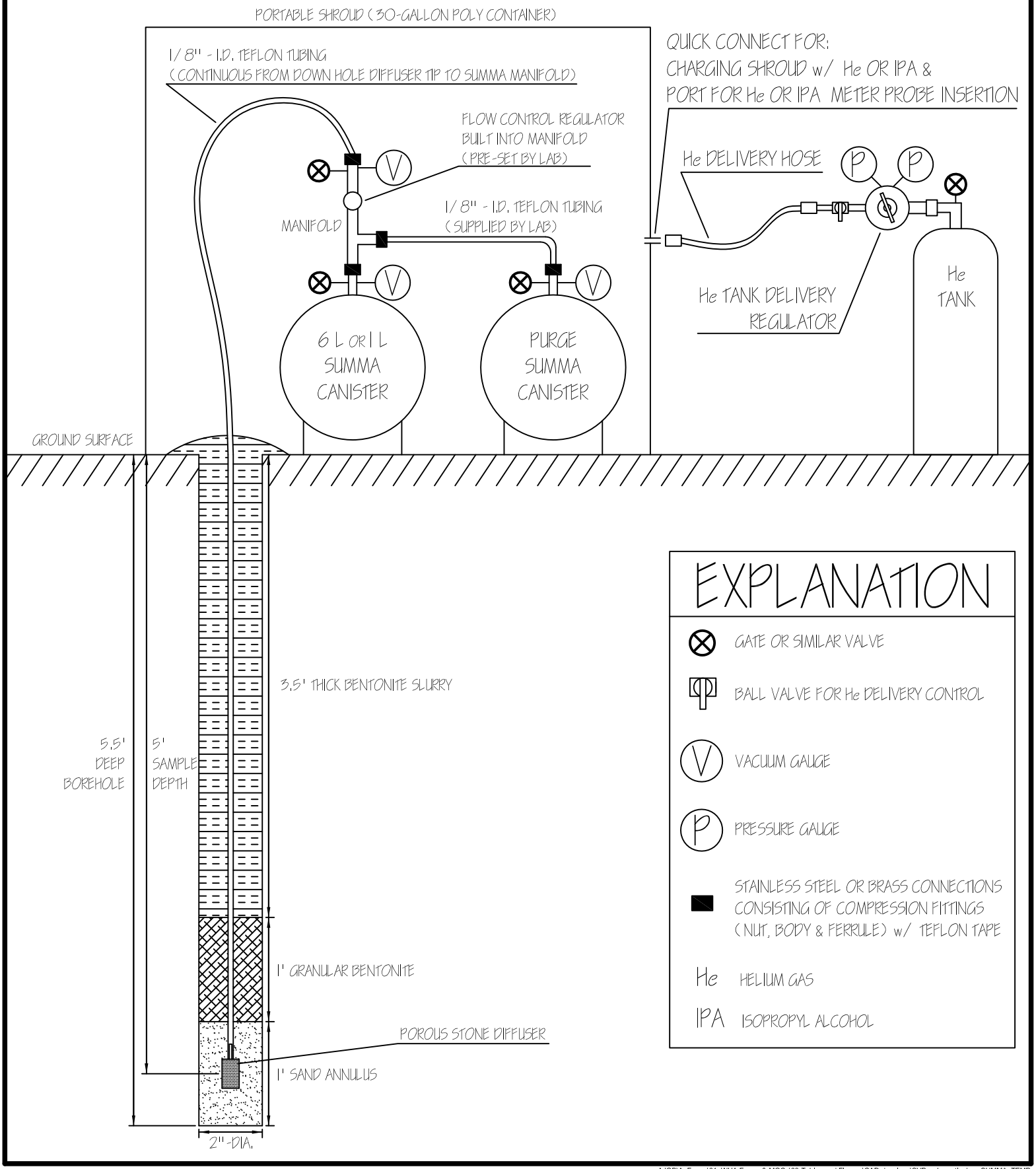
A low flow sampling condition is characterized as a condition where the sample probe cannot sustain a flow rate of 100-mL/min for more than three minutes while maintaining an applied vacuum of less than 100-inches of water (or 7.4-inches of mercury). The vacuum applied to the

sample probe will be measured and monitored via a vacuum gauge installed between the sample probe and the sample collection flow regulator. If the vacuum measured within the sample probe exceeds 100-inches of water during dead space volume purging, then one of the following sample collection procedures will be employed:

- If the lithology observed during sample probe installation indicates potential for low permeability / low flow conditions a representative soil sample at the soil vapor sample depth will be collected and put on ice for possible laboratory analysis.
- If extreme low flow conditions are observed during purging, specifically excessive time will be required to purge and collect a sample, we will contact the regulating agency to confirm collecting a purge volume approximating one dead space volume (i.e., volume of the sample tube plus the volume of the sand pack pore space and granular bentonite pore space surrounding the probe tip) will be evacuated prior to sample collection. Sample collection will proceed until the sample probe vacuum equals 100-inches of water. The sample system will then be closed off to allow the probe to relax and equilibrate. Over time the vacuum will eventually dissipate, the rate of which can be monitored via an in-line vacuum gauge installed as described above. Once the vacuum in the sample probe has dissipated, sampling will resume as described above. This process will be repeated until an adequate sample volume has been obtained for the required laboratory analysis.
- If during low flow sampling as stated above, the sample system when closed off to allow the probe to relax and equilibrate the probe vacuum does not reduce by 13.5 inches of water (1 inch of mercury) in 3-minutes, soil vapor sampling will cease and the previously collected soil sample will be submitted to the laboratory for potential analysis for site specific constituents.

Sample Storage and Transport

Once collected, the soil gas samples are then transported to a State-certified laboratory under appropriate chain-of-custody documentation. Sorbent media are wrapped in foil and placed in individual zip-lock type bags and immediately placed in a chilled cooler (chilled to 4 degrees Celsius) for storage and transport to the testing laboratory. Summa canisters are placed in laboratory provided cardboard boxes and stored at ambient temperature for transport to the testing laboratory.



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Temporary Soil Vapor Probe Construction Details

Figure B

Field Methodology for Indoor and Outdoor Air Sampling

Field Methodology for Indoor and Outdoor Air Sampling

This indoor and outdoor air sampling field methodology was designed in general accordance with the procedures outlined in the DTSC/CalEPA's final *Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance)* (October 2011 and 2012a).

1.0 SCOPE AND APPLICATION

This field methodology describes the method for collecting indoor, outdoor, and crawl space air samples for volatile organic compounds (VOCs) of target *chemicals of concern*. Reporting limits for these samples are typically very low and extremely prone to positive bias from interfering, aboveground VOC sources. A Building Survey will be performed before sample collection. The methods presented here are based on "clean" sampling techniques. The requirements of clean sampling dictate that sampling and sample handling are done by trained personnel and are designed to satisfy applicable regulatory standards.

2.0 GENERAL GUIDELINES

If other media sampling (i.e., soil, groundwater, soil vapor) are included for the site-specific assessment, typically this sampling will be collected concurrently with the indoor and outdoor air sampling (i.e., soil and groundwater sampling are not generally collected on the same day but are collected on the same phase of work mobilization in order to assess all media samples within a reasonable timeframe).

Indoor Air Sampling: Sampling for indoor air is generally conducted based on conservative (worst case) conditions and/or potential variation in seasonal results. Initial sampling for conservative conditions typically includes closed windows and doors and limiting drafts due to entering/exiting. Heating, ventilation, and air condition (HVAC) systems should be operated normally for the season and time of day. If testing during the cold season, the heating system should be run for at least 24 hours prior to sampling and the temperature should be maintained at, or above, 65ºF to address the potential of enhanced vapor intrusion conditions.

Multiple lines of evidence sampling assessment should be used to evaluate the need for seasonal evaluation of potential vapor intrusion. Lines of evidence can include soil & groundwater results, known contaminant sources, and initial subgrade vapor and indoor air results. Ideally, a minimum of two sampling events should be completed to address the potential for seasonal variation (i.e., a late summer/early autumn and a later winter/early spring). However, number of sampling events can be revised to be more or less based on site-specific conditions.

Outdoor Air Sampling: The collection of outdoor air samples, if deemed necessary to satisfy project goals to assess anthropogenic conditions that may impact indoor air conditions should be collected concurrently with indoor air sampling. The site-specific *Workplan* should define whether outdoor air sampling is to be conducted based on potential target chemical(s) contribution from surrounding area activities/processes. If outdoor air is appropriate, then three outdoor air samples will be collected during each indoor air sampling event.

3.0 SAMPLE LOCATION SELECTION & SETUP

Selection of sample locations: The selection of indoor, outdoor, and crawl space air sample locations will be based on a survey of building conditions, and in consultation with the building owner/occupant and local agency oversight staff. A *Building Survey for Indoor Air Sampling & Vapor Intrusion Investigation* form (copy attached) outlines the procedures/guidelines for performing a pre-sampling building survey (Following *DTSC Vapor Intrusion Guidance,* 2011 Appendix L). The

sample locations will be selected to meet the project-specific data quality objectives and will identify potential entry points of contaminated soil gas into the structure. The building survey observations will better inform appropriate indoor/ambient air sampling locations. Guidelines for selecting indoor, outdoor, and crawl space air sample locations are as follows:

- ***Indoor Air Sample Locations*:**
  - Indoor air samples are typically collected from segregated (walled off) compartments or HVAC zones within a building.
  - Indoor air samples are to be located in the areas of the building that are generally occupied most frequently and by the most amounts of people (i.e., for residential – primary living area; and for commercial – in the primary working zones) and/or at locations having the highest potential vapor intrusion (i.e., residential – bathroom and kitchen; and for commercial – near sumps, elevator shafts, floor drains, etc.).
  - Typically, indoor air samples will be collected on the lowest floor of the building at breathing zone height (approximately 3 to 5 feet) toward the center of the building away from windows and doors.
    - Site-specific considerations will be given to those situations where a different sampling height may also be appropriate to evaluate a unique setting or population (i.e., a daycare facility).
  - If there is more than one floor within a structure, additional indoor air samples will be considered in consultation with the overseeing agency staff, to address the potential for variable risk exposures and/or to distinguish contaminant contribution from background sources. The location and position of the indoor air sampling container will vary depending on the floor layout and facility infrastructure.
  - If there is a basement, any indoor air sample locations will be positioned to investigate worst-case situations within a structure (i.e., sumps or major cracks in the foundation).
- ***Outdoor Air Sample Locations*:**
  - Typically, outdoor air samples are collected upwind of subsurface contaminant plumes, upwind and/or downwind of the building or site being investigated, and at HVAC intakes. Outdoor air samples should be collected at breathing zone height (approximately 6 feet).
  - An effort will be made to place the canister away from obvious potential outdoor VOC sources (i.e., busy roads, gas stations, chemical storage, dry cleaners, etc.) in order to avoid biasing the sample results.
  - Outdoor air samples are collected on the upwind side of the building should be placed at a distance equal to twice the height of the building. However, the outdoor air canister may be placed near the outdoor air intake for the HVAC system for the building.
  - An effort will be made to secure outdoor air sample canisters to an immovable structure to ensure security and prevent tampering in public areas. If the canister is not in a secured location, the canister will be labeled as an environmental sample with warnings not to tamper, and will include contact information. A bicycle lock or piece of chain and padlock will be used.
  - Sampling should be conducted at least 10 feet beyond a tree's drip line. Placing canisters on

or near to a tree should be avoided as studies have suggested tree evapotranspiration processes can potentially capture and release VOCs from groundwater plumes.

- ***Crawl Space Air Sample Locations*:**
  - Crawl Space air samples are typically collected in locations selected to achieve adequate spatial coverage of the building's crawl space. However, the selected sample location may be limited by accessibility.
  - Crawl Space air sample inlets should be located several feet from the opening or access point to avoid dilution by outdoor air. In cases where the crawl space is most conveniently sampled by access through crawl space vents, a sampling probe (sample delivery line made of Teflon® or stainless steel) of sufficient length is attached to the inlet of the flow controller.

Selection of Sample Duration: Generally, 6-liter canisters are used for air sampling. An initial indoor air sample should be collected over a 24-hour sample period for a worst case scenario. If the initial sample indicates there is NO presence of VOCs, and additional lines of evidence indicate there is no significant source of source material capable of creating significant off-gassing (i.e., no significance source of residual soil contamination or elevated dissolved concentrations in a contaminant plume), then a second round of follow-up samples may not be necessary.

After initial samples are collected, follow-up sampling may be warranted based on any significant detections and any additionally collected multiple lines of evidence. Follow-up sampling durations are usually selected to mimic the building occupants daily exposure period. Residential air sampling durations are typically 24 hours and commercial/industrial durations are typically 8-hours (note: depending on schedule shifts, the duration may be adjusted).

Sample collection can be integrated over time by adjusting the flow controller. Project-specific sample periods as short as 10 minutes to as long as 24 hours can be achieved based on the size of canister used and the sampling rate selected (see Table below).

Typical Air Sampling Rates:

Canister Size	Sample Duration	Sampling Flow Rate (mL/min)
6-Liter	1-hour	90
6-Liter	8-hours	11.25
6-Liter	24-hours	3.75
1-Liter	5-minutes	180
1-Liter	1-hour	15
850-mL	5-minutes	150
850-mL	1-hour	12

Selection of Sampling Schedule: Sample collection that is less than 24-hous should ideally occur during typical operating conditions (i.e., when workers occupy the building). However, building owners/occupants may request that sampling take place when the building is not in use. In the case

of commercial operations, the HVAC system is set to typical operating conditions and an additional sampling event may be required to further refine assessment of conditions when the HVAC system is off. If additional sampling is warranted, the schedule and location will be selected only after conferencing with agency staff.

4.0 SAMPLING EQUIPMENT & MATERIALS

Indoor and outdoor air samples are typically collected in stainless steel, polished, certified clean canisters that have been evacuated to a vacuum of approximately 30 inch of mercury. Laboratory provided flow controllers are also certified clean and set at the desired sampling rate by the laboratory. Laboratory sampling equipment/hardware is typically shipped in containers suitable for protection during transit with general package shipping companies (i.e., FedEx or UPS).

Vacuum gauges used to check canister vacuum should be oil-free and clean (gauges are typically provided by the laboratory). The laboratory may either provide one vacuum gauge to be used with all of the canisters, or a vacuum gauge for each canister to be left on during sample collection. Sometimes the canisters are fitted with built-in vacuum gauges that are not removable. These gauges are for field use only, and are an approximate measure of the actual vacuum. Regularly calibrated – and less rugged – vacuum gauges are used at the laboratory to measure vacuum before shipment and again after sample receipt. All tools (i.e., wrenches and screwdrivers) used for connecting fittings and making adjustment to the flow controller should be clean and free of contaminants.

For crawl space samples, typical sample probe material may include new Teflon®, Nylaflo® or stainless steel tubing, fitted with compression fittings.

A sampling desiccant filter or similar device may be used for outdoor air sampling to prevent water from entering canister during sampling.

SAMPLE COLLECTION PROCEDURES

Clean sampling protocols must be followed when handling and collecting air samples, including:

- Care in the shipping, storage, and use of sampling equipment.
- Cleanliness of personnel who come in contact with the sampling equipment is also important:
    - NO smoking, eating, drinking, perfumes, deodorants, dry cleaned clothing, etc.
- Canisters should not be transported in vehicles with gas-powered equipment or fuel cans.
- Sharpie®- type markers should not be used for labeling or note-taking during sampling.

As noted above, a building survey to evaluate vapor intrusion should be completed prior to taking air samples, (see *Building Survey for Indoor Air Sampling & Vapor Intrusion Investigation* form). The form should be referenced and any changes in building conditions since the building survey was completed should be noted (i.e., changes in chemical storage location/quantities).

The canister should be carefully inspected for damage (canisters having visible damage should not be used). The canister's initial vacuum should be recorded and sufficient vacuum should be available for sampling. Canister having less vacuums than registered by the certified laboratory (~29 to 30 inches Hg) are a potential indication of leakage which could affect the accuracy of analytical results. The initial canister vacuum will be measured using an external vacuum gauge, as described below:

- Remove protective cap from the canister (make sure the canister valve is closed before doing

this.

- If there is not a vacuum gauge already attached to the canister, attach an external vacuum gauge to the canister and open the valve. If the vacuum gauge has two openings, make sure that the other opening is closed; the canister cap can be used for this. After taking the reading, record the initial vacuum, close the canister valve and remove the gauge.
- Measure the initial canister vacuum using a vacuum gauge with 0.25% accuracy at the -30 to 0 inches Hg range and NIST-traceable calibration for vacuum measurements.
- Do not sample using a canister without sufficient initial vacuum. Sampling data may be flagged or rejected for canisters having low initial vacuum (less than 28 inches Hg) as low initial vacuum can create a low bias in analytical results due to air leakage. While there is also a smaller risk that air leakage could introduce contaminants into the canister, the primary concern is the low bias to analytical results; this bias is within the range of analytical variability allowed with the EPA Method TO-15 (±30%) for initial vacuums >24 inches Hg. The table presented in below identifies the field person's response based on the initial vacuum reading for a canister. In addition, this table also identifies the potential bias to results at different initial canister vacuums. Use the following table to determine when to use canisters based on initial vacuum readings:

Initial Vacuum Reading (inches of Hg)	Potential Percent Error in Analytical Results (from vacuum leakage)	Recommended Course of Action
>30 to 28	Up to -10%	Use canister for sampling – no limitations on use.
>26 to 28	Up to -21%	Use canister for sampling if necessary; replace canister with a spare if spares are available.
>24 to 26	Up to -30%	Sampling with canister is not advisable. Contact project manager and obtain direction before sampling with this canister. (Lab qualifiers may be applied to analytical results sampled with canisters with vacuums less than 26 inches Hg).
<24	> -30%	Do not use (analytical results will be rejected).

Flow controllers should come pre-set by the laboratory to sample at a pre-determined rate based on specific project requirements (see Table on page 4, under *Selection of Sample Duration* for the most common options). In some cases (i.e., project-specific quality assurance [QA]), the flow rate will need to be verified in the field prior to use. This is accomplished with a bubble meter, vacuum source, and instructions supplied by the laboratory.

5.0 SAMPLE EQUIPMENT SETUP, SAMPLE COLLECTION & BREAKDOWN

- Connect the flow controller to the sample canister.
- For outdoor samples, be sure that the inlet to the flow controller is protected from precipitation. Place the canister and flow controller under a shelter/enclosure, use a sampling desiccant filter provided by the laboratory, or use a clean piece of aluminum foil to build a tent over the flow controller inlet.
- If crawl spaces are being sampled remotely through a crawl space vent, adjust the length of the

sampling probe to achieve the desired sampling location and place an inert spacer/support (wire clothes hanger) near the end of the probe to keep the probe tip opening suspended ~3 inches above the ground level. Then connect the sampling probe to the inlet of the flow controller.

- Remove all work articles from the sampling area.
- BEGIN SAMPLING by slowly opening the canister valve one full turn. For canisters with built-in or assigned vacuum gauges, monitor the vacuum change several times during the course of the selected sample period to ensure the canister is filling at the desired rate.
- AT THE END OF THE SAMPLE PERIOD, record the final canister vacuum and close the canister valve finger tight.
- Remove the flow controller and replace the protective cap on the canister valve fitting.
- If necessary, measure the final canister vacuum with a separate vacuum gauge. Open the canister valve and record the final vacuum. Close the valve, remove the gauge, and replace and tighten the cap on the canister.
    - Appropriate final vacuum in the canister is between 2 and 10 inches Hg. More than 10 inches Hg indicates that a smaller than expected sample volume has been collected, which can increase laboratory reporting limits.
- Canisters with no vacuum left (i.e., 0 inches Hg) should not be analyzed as sample bias could occur. It may be possible to have the lab verify if there is vacuum (i.e., the tank gauge is faulty). If the laboratory vacuum gauge indicates vacuum remains in the canister, then the sample is still considered acceptable and may be analyzed. The analytical laboratory will be directed to not analyze any sample showing a final vacuum of 0 inches Hg (as measured by the laboratory).
- If the flow controller is going to be used for more than one sample collection, a purge volume should run through the apparatus. To do this, attach the flow controller to a vacuum source and draw clean air or gas (ultra-high purity) through it for several minutes before attaching it to the canister.

6.0 QUALITY ASSURANCE/QUALITY CONTROL

One duplicate sample will be collected for each sampling event, and for each laboratory used, if more than on laboratory is needed. Trip blanks are considered unnecessary when passivated steel canisters are used for sample collection. Collected samples will be delivered to the analyzing laboratory as soon as possible and will be analyzed within the recommended holding times (30 days for passivated steel canisters).

7.0 SAMPLE STORAGE AND TRANSPORT

Once collected, the air samples are then transported to a State-certified laboratory under appropriate chain-of-custody documentation. Sticky labels should NOT be affixed to the sample canisters. Summa canisters are placed in cardboard boxes and stored at ambient temperature for transport to the testing laboratory.

8.0 ALTITUDE CORRECTION

Air pressure decreases with elevation. Therefore, a canister evacuated at a laboratory located at sea level will show a lower vacuum measurement at a higher altitude. Generally, a 1,000 foot rise in

elevation corresponds to a 1 inch Hg drop in pressure OR a 1 inch Hg decrease in measured vacuum. For example, a canister evacuated to 30 inches at sea level and used at 3,000 feet would show an initial vacuum of 27 inches Hg.

For samples collected at altitude, the laboratory will be informed ahead of time so they adjust the flow controllers accordingly. If sampling is being conducted at higher elevations, verify the elevation difference between the analytical laboratory and field location and determine the associated decrease in measured vacuum using the following formula:

- Calculate the pressure difference between the laboratory and field location as follows:
    - Difference from Sea Level (field) – Difference from Sea Level (laboratory). Use the Altitude Correction Table attached.
- Subtract the pressure difference determined directly above from allowable initial vacuum levels (pre-sample collection) and final vacuum levels (post-sample collection) to determine appropriate initial and final vacuum levels.

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Vapor Intrusion Assessment

BUILDING SURVEY FOR INDOOR AIR SAMPLING & VAPOR INTRUSION INVESTIGATION

Objective: *To visually evaluate and document building characteristics and make note of factors that influence the quality of indoor air and sub-slab vapor sampling for the purpose of completing a vapor intrusion assessment.*

SECTION 1. INSPECTOR INFORMATION

Preparer's Name: _____ **Date / Time Prepared:** _____

Affiliation: _____ **Phone Number:** _____

SECTION 2. PROJECT AND SITE INFORMATION

Site/Facility Name: _____ **Project #:** _____

Site Address: _____

Building ID: _____

Date/Time of Survey: _____ **Weather Conditions**: _____

SECTION 3. OCCUPANTS AND CONTACT INFORMATION

Occupant Name / Business Entity: _____ **Contact Person(s):** _____

Phone: _____ **Email**: _____ **Other**: _____

Owner Name / Business Entity: _____ **Contact Person(s):** _____

Phone: _____ **Email**: _____ **Other**: _____

Occupant Information

# of Tenants: _____ **Description of Uses**: _____

_____

Total # of Occupants: _____ **# of Adults**: _____ **# of Children**: _____

Duration of Occupancy: _____

SECTION 4. BUILDING CONSTRUCTION DETAILS

Building Type:

- ☐ Single-Family Residential
- ☐ Multi-Family Residential
- ☐ Apartment
- ☐ School or College
- ☐ Mall / Strip-Mall
- ☐ Religious
- ☐ Commercial: Office
- ☐ Commercial: Retail
- ☐ Commercial: Storage / Warehouse
- ☐ Commercial: Restaurant
- ☐ Industrial: R&D
- ☐ Industrial: Manufacturing
- ☐ Industrial: Equip Repair
- ☐ Other: _____

# of Levels: _____ **Approx. Age (years)**: _____ **Remodel Dates**: _____

Total Area (sq-ft): _____ **Specific Floor Areas (sq-ft)**: _____

Occupied Levels: _____

Foundations

Foundation Type:

- ☐ Slab-on-Grade
- ☐ Crawl Space
- ☐ Basement
- ☐ Poured Wall
- ☐ Block Wall
- ☐ Stone/Masonry
- ☐ Other

Basement Details:

- ☐ None Present
- ☐ Native Soil or Fill Material
- ☐ Concrete (sealed)
- ☐ Wet Surface / Floating
- ☐ Sump Pump
- ☐ Cracks Present in Seal?
- ☐ Floor Drains / Cleanouts Present?

Moisture / Flooding Concerns:

- ☐ No
- ☐ Frequently (> 3 times a year)
- ☐ Occasional (< 3 times a year)
- ☐ Rare (< 1 times a year)

Are cracks visible on the slab? _____

Are there significant utilities or conduits that penetrate the interior floor surface? _____

Are there heat sources or other air related systems that could create significant negative pressure near the floor/slab? _____

Basement Ventilation? If yes, describe: _____

Surface Coverings Outside of Facility? If yes, describe: _____

Are floor drains present on slab or inside facility? _____

Are subslab barriers or depressurization systems in place? _____

Heating, Cooling and Ventilation Systems

Heat Source:
- ☐ Natural Gas
- ☐ Fuel Oil
- ☐ Electric
- ☐ Kerosene
- ☐ Propane
- ☐ Wood

Heating Conveyance System:
- ☐ Forced-Air
- ☐ Hot Water Radiation
- ☐ Electric Baseboard
- ☐ Forced Hot Water
- ☐ Wood Stove
- ☐ Other: _____

Ventilation Systems Used:
- ☐ Central Air Blower
- ☐ Hood Vents
- ☐ Air to Air Heat Exchanger
- ☐ Mechanical / Ceiling Fans
- ☐ Other: _____

Cooling Source:
- ☐ Central Air Conditioning
- ☐ Window-Mounted Air Conditioning
- ☐ None Present
- ☐ Other: _____

SECTION 5. CURRENT ATMOSPHERIC AND SITE CONDITIONS

What is the temperature relative to outside?	
Were windows and doors kept open?	
Is ventilation system in use?	
Are intake and exhaust fans being used?	
Ventilation hoods in operation?	
Do any portions of indoor air appear to be stagnant?	
Do any portions of indoor air exhibit strong or unusual odors?	

SECTION 6. MISCELLANEOUS FACTORS

Are attached garages or storage structures present?	☐ Yes	☐ No	
Does smoking occur in the building?	☐ Yes	☐ No	
New carpet or furniture recently installed?	☐ Yes	☐ No	
Have any fabrics been dry cleaned recently?	☐ Yes	☐ No	
Has any portion of the interior been painted or stained within the last 6 months?	☐ Yes	☐ No	

Any documented internal fires, recently or historically?	☐ Yes	☐ No	
Has the building been remodeled recently?	☐ Yes	☐ No	
Are aboveground or underground fuel/oil storage tanks present near the facility?	☐ Yes	☐ No	
Is there a hobby or craft area in the building?	☐ Yes	☐ No	
Is gun cleaner stored in the building?	☐ Yes	☐ No	
Do any building occupants use solvents at work?	☐ Yes	☐ No	
Are manufactured products / materials stored that may be off-gassing VOCs from the manufacturing process?	☐ Yes	☐ No	
Has the building been fumigated within the last 3 months?	☐ Yes	☐ No	
Do any current building occupants use solvents or volatile chemicals for any purpose?	☐ Yes	☐ No	
Is a septic system connected to the facility? Proximity? Active?	☐ Yes	☐ No	
Are ponds or pools adjacent to the facility?	☐ Yes	☐ No	

SECTION 7. LIST ANY KNOWN VOLATILE HAZARDOUS MATERIALS OR CLEANING PRODUCTS PREVIOUSLY STORED

SECTION 8. LIST ANY VOLATILE HAZARDOUS MATERIALS OR CLEANING PRODUCTS CURRENTLY STORED

SECTION 9. BUILDING SKETCH

Provide a sketch of facility that details the location of heating and cooling systems/intakes, locations of doors and windows, hazardous materials and petroleum products storage locations and general orientation.

Field Methodology for Monitoring / Remediation Well Installation & Well Development and Post Development Sampling

Field Methodology for Monitoring / Remediation Well Installation
and
Well Development & Post Development Sampling

This appendix describes the methods employed in hollow stem auger drilling for soil and groundwater investigations and/or monitoring and/or remediation well installations. Included are specifications for borehole drilling and soil sampling procedures, and the conversion of boreholes into monitoring wells, piezometers, sparge wells, vapor monitoring, and /or vapor extraction wells. Fieldwork tasks and well construction generally follow the guidelines outlined in the California EPA's *Guidance Manual for Groundwater Investigations – Monitoring Well Design and Construction for Hydrogeologic Investigations,* dated July 1995.

Borehole Drilling and Soil Sampling Procedures: Exploratory borehole(s) locations are determined based on data from previous investigation(s), local and regional groundwater flow direction, surface topography, underground utilities, overhead utilities and obstructions, property lines, and structures.

The exploratory boreholes are drilled using a truck-mounted drill rig equipped with eight-inch or twelve-inch diameter hollow-stem augers. Soil samples are obtained for lithologic logging of native materials and laboratory analysis. The retrieved soil is logged by an experienced geologist using the Unified Soil Classification System (USCS). A Photoionization Detector (PID) is used during drilling operations for site safety purposes and for on-site interpretation of potential "hot-spots". Vapor readings in parts per million (ppm) are recorded on the boring logs.

The samples are collected by advancing the boring to a point immediately above the sampling depth and driving a modified-California split-spoon sampler into relatively undisturbed soil through the center of the drill augers. The sampler contains three separate six-inch brass or stainless steel sleeves that are driven into undisturbed soils by a standard 140-pound hammer that is repeatedly dropped from a height of 30 inches. The number of blows required to drive the sampler each successive 6-inches is recorded on geologic logs to evaluate the relative consistency of the soil. When driving the split-spoon sampler is complete, the driller advances the auger flight over the split-spoon sampler, thus freeing the sampler to be retrieved. Drilling cuttings are continuously observed and materials retrieved from the sampler are logged by the field geologist. Three brass sleeves are retained from the modified-California split-spoon sampler at project specific sampling intervals. The soil sleeves are retained for the following purposes:

- One sleeve is protected at both ends with Teflon tape, sealed with non-reactive caps, taped, labeled, and immediately stored in an insulated container cooled chilled to a temperature of 4 degree Celsius. Selected samples (generally at least one per borehole,

though soil samples may not be analyzed from borings for remediation wells at well characterized sites) are transported under appropriate chain-of-custody documentation to a State Certified laboratory for analysis specific to the investigation.

- The second sample is extracted from its sleeve and stored in a sealed plastic bag so that it may be screened by the portable PID for hydrocarbon odors and/or volatile organic compounds.
- The third sample is also extracted from its sleeve and used to describe the subsurface lithology at the specific sampling depth. The retrieved soil is logged by an experienced geologist using the USCS criteria for soil description.

Alternatively, some hollow stem auger drill rigs are equipped with pneumatic samplers rather than the aforementioned free falling hammer sampling technique. The pneumatic sampler vibrates and drives steel probes into the soil. This sampling technology has the ability for either continuous or discrete sampling using a 4-foot long nickel-plated sampling probes fitted with clear acetate liners. During coring operations, the sampler remains open as it is driven into undisturbed soil over its entire 4-foot sampling interval. Soil samples targeted for laboratory analysis are immediately cut from the acetate sample liner and protected at both ends with Teflon tape, sealed with non-reactive caps, taped, labeled, placed in a plastic ZipLock baggie, and immediately stored in an insulated container chilled to a temperature of 4 degree Celsius for transportation under to a State Certified laboratory for analysis specific to the investigation appropriate chain-of-custody documentation.

Soil cuttings are either (1) stockpiled on, and covered with, plastic sheeting to eliminate aeration of potentially contaminated soil, or (2) containerized in 55-gallon steel drums. Soil cuttings from drilling operations are disposed of under proper hazardous waste manifest(s) in landfills capable of accepting the appropriate waste type and contaminant concentration.

Conversion of Borehole(s) into Well(s): The boreholes are converted into groundwater monitoring wells, piezometers, sparge wells, vapor monitoring, and /or vapor extraction wells by installing threaded schedule 40 PVC well casing of the appropriate diameter (dependant upon well type). A predetermined portion of the well casing is constructed of machine-slotted sections, which allow for the flow of groundwater and/or soil vapor/air into and out of the well casing. The size of the machined slots (measured in 100ths of inches) is determined by the grain size of the native materials encountered during drilling and by the well's intended use. For groundwater monitoring wells the screened section is generally no more than 10 feet long. The well casing is lowered into the borehole through the hollow stem augers and the annular space adjacent to the screened interval is slowly backfilled with sand (sand size is determined by the slot size noted above). The annular space between the well casing and the borehole wall will be a minimum of 2.5 inches and no more than 5-inches. A weighted measuring tape with the

appropriate graduations (feet and 10ths of feet) is used to prevent bridging of the annular material and to insure that the well is constructed according to the predetermined construction specifications. The annular sand (or filter pack) is extended one to two feet above the top of the screened interval. A two-foot thick hydrated bentonite seal is placed above the sand and the remaining annular space is back filled with cement slurry to prevent the inflow of surface water. The wellhead is fitted with a locking watertight plug and is encased in a traffic-rated bolt-down vault to protect against damage and unauthorized access.

Well Development and Groundwater Sample Collection: Weber, Hayes and Associates' groundwater monitoring field methodology is generally based guidelines outlined in California EPA's *Guidance Manual for Groundwater Investigations – Monitoring Well Design and Construction for Hydrogeologic Investigations,* dated July 1995. Well development operations will occur no sooner than 48 hours following well installation. The first step in groundwater well development is for Weber, Hayes and Associates field personnel to measure the depth-to-groundwater to the nearest hundredth (0.01) of a foot with an electric sounder. If the well appears to be pressurized, or the groundwater level is fluctuating, measurements are made until the groundwater levels stabilize, and a final depth-to-groundwater measurement is taken and recorded. After the depth-to-groundwater is measured, the well is then checked for the presence of free product with an oil/water interface probe. If free product is present, the thickness of the layer is recorded, and the product is removed. All field data (depth-to-groundwater, well purge volume, physical parameters, and sampling method) is recorded on field data sheets. Because removing free product may skew the data, wells that contain free product are generally not used in groundwater elevation and gradient calculations.

After measuring the depth-to-groundwater, a surge block is used to physically swab the wells entire screened interval a minimum of 50 strokes in order to remove fines for the sand pack and promote gradation between the surrounding formation and the sand pack. Following well swabbing the well is purged with a low flow submersible electric pump until visually free of turbidity. It may be necessary to repeat the well swabbing and purging steps if the turbidity of the discharge water does not decrease during the well purge. During purging the physical parameters of temperature, conductivity, pH, dissolved oxygen (D.O.) concentration, and Oxidation-Reduction Potential (ORP) of the purge water are monitored with a YSI ProPlus Flow Through Cell equipped meter to ensure that these parameters have stabilized. The YSI ProPlus meter is calibrated on site prior to each sampling event. Purging is determined to be complete (stabilized aquifer conditions reached) after the removal of at least one well casing volume of water and when the physical parameters have stabilized as follows:

Parameter	Stabilization Criteria
Temperature	+/- 3% of the reading (minimum of +/- 0.2° C)
pH	+/- 0.1
Electrical Conductance (EC)	+/- 3%
Oxidation-reduction Potential	+/- 10 millivolts
Dissolved Oxygen	+/- 0.3 milligrams per liter

The stabilization criteria should hold for at least three consecutive readings at a recording interval of approximately 1 reading per minute.

All purge water is stored on site in DOT-approved, 55-gallon drums for disposal by a state-licensed contractor pending laboratory analysis for fuel hydrocarbons.

After purging, the water level in the well is allowed to recover to 80 percent of its original depth before a sample is collected. After water level recovery, a post-development groundwater sample is collected from each well with a new, disposable bailer, and decanted into the appropriate laboratory-supplied sample container(s). All samples are labeled in the field and transported in insulated containers cooled with blue ice to state-certified laboratories under proper chain of custody procedures.

All field and sampling equipment is decontaminated before, between, and after measurements or sampling by washing in a Liqui-Nox and tap water solution, rinsing with tap water, and rinsing with distilled water.

Equipment Decontamination and Decontamination Fluid Containerization Procedures: All drilling equipment is steam cleaned prior to arriving on-site to prevent the transfer of contamination from another site. Accordingly, all drilling equipment is steam cleaned between boreholes (if applicable) and at the end of drilling operations to prevent the transfer of contamination to another site. The drill augers, all soil sampling equipment, and groundwater sampling and/or measurement equipment is thoroughly cleaned between each sampling run with a Liqui-Nox® or Alconox® solution followed by a double rinsing with distilled water to prevent transferring contamination vertically.

All cleaning rinsate, wash water, and other fluids or solids produced during the drilling process are containerized on-site in 55-gallon steel drum(s), and/or are disposed of under proper hazardous waste manifest(s) to an appropriate recycling facility with the capacity to accept the type and concentration of contaminant(s).

Plant number 2163   A2163
Business name ..... Olin Mesa Corporation
Location address ..... 1130 Terra Bella Avenue
   City ..... Mountain View, CA 94043
   Telephone 415-961-6392
Mailing address ..... 1130 Terra Bella Avenue
   City ..... Mountain View, CA 94043
Contact ..... Curt M Richards, Director of Operations
   Address ..... 1130 Terra Bella Avenue
   City ..... Mountain View, CA 94043
   Telephone ..... (415) 961-6392
Permit engr, Current ... Pamela J Leong (742)
            Former .... Orick H Robinson (691)
Ownership type ..... Private
Plant centroid, UTM ....
**-8888
 Horizontal,-8888.000 Vertical
Inside city limits ..... No
Ceased operation ..... Sep 26, 1989, Dismantled

Plant #: 2163
Company name: Olin Mesa Corporation
Location: 1130 Terra Bella Avenue, Mountain View, CA 94043

Application #: 31470
Project title: Etching copper foil
Engineer: Victor T Reyes [308]
Received: 04/09/86
Final disposition: Waived A/C, 06/18/86

Application #: 32375
Project title: Photoresist applic
Engineer: Gregory A Stone [399]
Received: 02/13/87
Final disposition: A/C granted, 04/07/87

*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form.

File Original with DWR

State of California
Well Completion Report

Refer to Instruction Pamphlet

No. 00137023

Page 1 of 2

Owner's Well Number N/A

Date Work Began 9/19/2011 Date Work Ended 9/23/2011

Local Permit Agency SCVWD

Permit Number 11DD0384 Permit Date 9-14-11

DWR Use Only – Do Not Fill In

State Well Number/Site Number: 06S02W15M012

Latitude N ___ Longitude W ___

APN/TRS/Other

Geologic Log

Orientation ○ Vertical ○ Horizontal ○ Angle Specify ___

Drilling Method ___ Drilling Fluid ___

Depth from Surface Feet	to Feet	Description (Describe material, grain size, color, etc.)
0	85	Ball Weld to prepare Bottom transit grout with 2 l Sack cement slurry Remove Casing to 5' BGS Backfill with Native material

RECEIVED
OCT 07 2011
S.C.V.W.D.
WELLS

Total Depth of Boring 85' Feet

Total Depth of Completed Well 85' Feet

Well Owner

[redacted]

Well Location

Address 1150 Terra Bella

City Mountain View County SCUWD

Latitude ___ Deg. ___ Min. ___ Sec. N Longitude ___ Deg. ___ Min. ___ Sec. W

Datum ___ Decimal Lat. ___ Decimal Long. ___

APN Book 153 Page 150 Parcel 22

Township ___ Range ___ Section ___

Location Sketch

(Sketch must be drawn by hand after form is printed.)

North

See Page 2

West East

South

Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity

○ New Well
○ Modification/Repair
○ Deepen
○ Other ___
○ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

○ Water Supply
☐ Domestic ☐ Public
☐ Irrigation ☐ Industrial
○ Cathodic Protection
○ Dewatering
○ Heat Exchange
○ Injection
○ Monitoring
○ Remediation
○ Sparging
○ Test Well
○ Vapor Extraction
○ Other ___

Water Level and Yield of Completed Well

Depth to first water ___ (Feet below surface)

Depth to Static Water Level ___ (Feet) Date Measured ___

Estimated Yield * ___ (GPM) Test Type ___

Test Length ___ (Hours) Total Drawdown ___ (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet	to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size If Any (Inches)

Annular Material

Depth from Surface Feet	to Feet	Fill	Description
0	85	Cement grout	Transit grout

Attachments

☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☐ Other ___

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Pitcher Drilling (Person, Firm or Corporation)

218 Demeter Street (Address) East Palo Alto (City) CA (State) 94303 (Zip)

Signed ___ (C-57 Licensed Water Well Contractor) Date Signed 10/4/11 C-57 License Number 263085

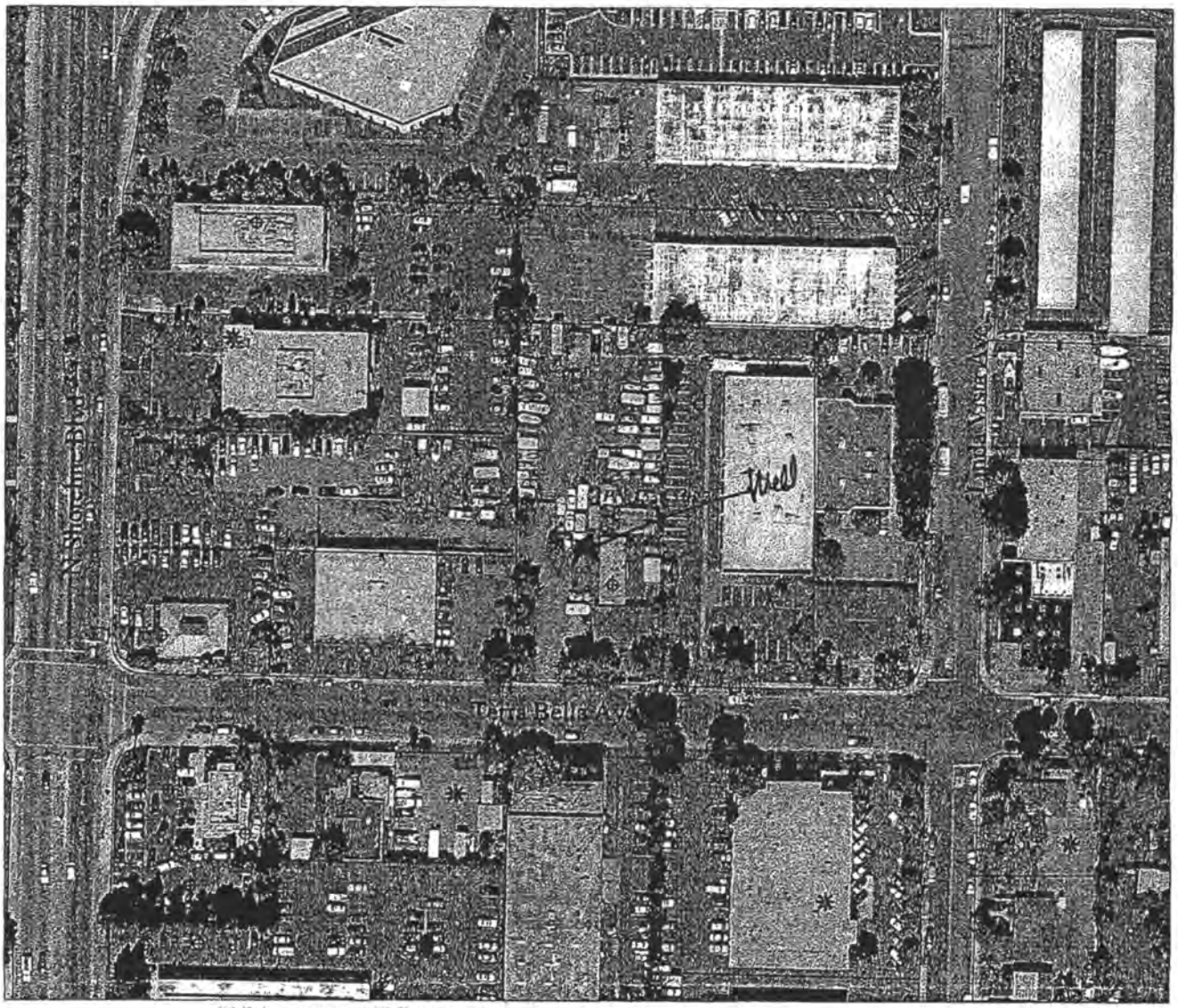
DWR 188 REV. 1/2006

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

E0137013

Santa Clara Valley Water District
5750 ALMADEN EXPRESSWAY
SAN JOSE, CA 95118-3686

1150 TERRA BELLA AVE, MV



APN: 15315022
1150 TERRA BELLA AV
MOUNTAIN VIEW CA
94043

Well Annotations- 1 Wells Selected

No	Well_nbr	Permit	Consultnum	Status	Easting	Northing
1	06S02W15M012	No Data	No Data	Water Supply-Active	6103804	1975168

Wells.shp
- Water Supply - Active
- Water Supply - Standby
- Water Supply - Inactive
- Extraction (Env) - Active
- Extraction (Env) - Inactive
- Other - Active
- Other - Inactive
- Abandoned
- Destroyed
- Status Undetermined

PARCELS.SHP

Approximate Scale
50 0 50 100 Feet

c:\esri\work2.apr

September 13, 2011

*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form.

File Original with DWR

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. e0131347

Page 1 of 1

Owner's Well Number MW-22H

Date Work Began 6/9/11 Date Work Ended 6/9/11

Local Permit Agency SCVWD

Permit Number 11D00259 Permit Date 6-2-11

DWR Use Only – Do Not Fill In

State Well Number/Site Number: 06S02W15M045

Latitude N Longitude W

APN/TRS/Other

Geologic Log

Orientation ○ Vertical ○ Horizontal ○ Angle Specify

Drilling Method Drilling Fluid

Depth from Surface Feet	to Feet	Description Describe material, grain size, color, etc
0	22.5	NONE OBSERVED

RECEIVED
JUN 20 2011
S.C.V.W.D.
WELLS

Total Depth of Boring N/A Feet

Total Depth of Completed Well N/A Feet

Well Owner

Well Location

Address 1043 N SHORELINE BLVD

City Mtn. View County Santa Clara

Latitude Deg. Min. Sec. N Longitude Deg. Min. Sec. W

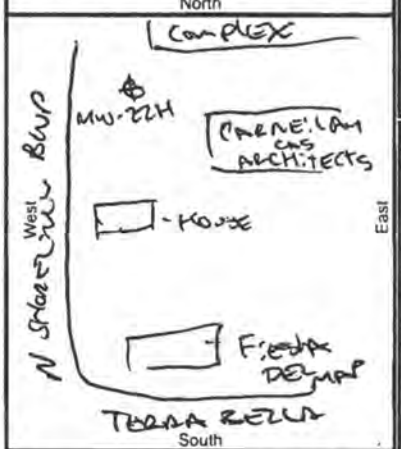
Datum Decimal Lat. Decimal Long.

APN Book 153 Page 15 Parcel 018

Township Range Section

Location Sketch

(Sketch must be drawn by hand after form is printed.)



Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. **Please be accurate and complete.**

Activity

- ○ New Well
- ○ Modification/Repair
  - ○ Deepen
  - ○ Other
- ☒ Destroy

Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

- ○ Water Supply
  - ☐ Domestic ☐ Public
  - ☐ Irrigation ☐ Industrial
- ○ Cathodic Protection
- ○ Dewatering
- ○ Heat Exchange
- ○ Injection
- ☒ Monitoring
- ☒ Remediation
- ○ Sparging
- ○ Test Well
- ○ Vapor Extraction
- ○ Other

Water Level and Yield of Completed Well

Depth to first water (Feet below surface)

Depth to Static Water Level (Feet) Date Measured

Estimated Yield * (GPM) Test Type

Test Length (Hours) Total Drawdown (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet	to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size If Any (Inches)
0	22.5	–	FILLED W/ NEAT PORTLAND GROUT					

Annular Material

Depth from Surface Feet	to Feet	Fill	Description

Attachments

- ☐ Geologic Log
- ☐ Well Construction Diagram
- ☐ Geophysical Log(s)
- ☐ Soil/Water Chemical Analyses
- ☐ Other

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name CHRIS TAYLOR for WDC Exploration & Wells (Person, Firm or Corporation)

1961 Meeker Ave (Address) Richmond (City) CA (State) 94804 (Zip)

Signed (C-57 Licensed Water Well Contractor) 6/14/11 (Date Signed) 783326 (C-57 License Number)

DWR 188 REV. 1/2006

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

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File Original with DWR

Page 1 of 1

Owner's Well Number MW-22E

Date Work Began 6/9/11 Date Work Ended 6/9/11

Local Permit Agency SCVWD

Permit Number 11D00252 Permit Date 6-2-11

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. e0130449

DWR Use Only – Do Not Fill In

State Well Number/Site Number: 06S02W15M039

Latitude / Longitude

APN/TRS/Other

Geologic Log

Orientation ○ Vertical ○ Horizontal ○ Angle Specify

Drilling Method Drilling Fluid

Depth from Surface Feet	to Feet	Description Describe material, grain size, color, etc
0	19.5	

RECEIVED JUN 20 2011 S.C.V.W.D. WELLS

Total Depth of Boring NA Feet

Total Depth of Completed Well NA Feet

Well Owner

[redacted]

Well Location

Address 1015 N. SHORELINE BLVD

City MTN VIEW County SANTA CLARA

Latitude Deg. Min. Sec. N Longitude Deg. Min. Sec. W

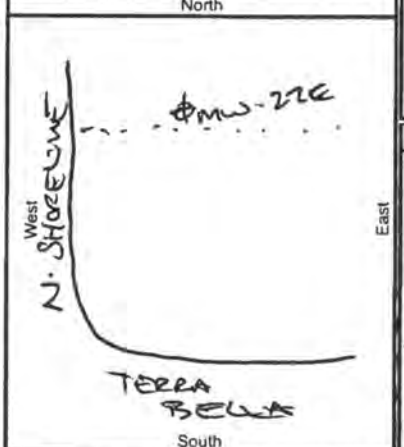
Datum Decimal Lat. Decimal Long.

APN Book 153 Page 15 Parcel 016

Township Range Section

Location Sketch

(Sketch must be drawn by hand after form is printed.)



Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. **Please be accurate and complete.**

Activity

- ○ New Well
- ○ Modification/Repair
  - ○ Deepen
  - ○ Other
- ☒ Destroy

Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

- ○ Water Supply
  - ☐ Domestic ☐ Public
  - ☐ Irrigation ☐ Industrial
- ○ Cathodic Protection
- ○ Dewatering
- ○ Heat Exchange
- ○ Injection
- ☒ Monitoring
- ☒ Remediation
- ○ Sparging
- ○ Test Well
- ○ Vapor Extraction
- ○ Other

Water Level and Yield of Completed Well

Depth to first water (Feet below surface)

Depth to Static Water Level (Feet) Date Measured

Estimated Yield * (GPM) Test Type

Test Length (Hours) Total Drawdown (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet	to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	19.5	—	FILLED	W/ NEAT PORTLAND CEMENT GROUT				

Annular Material

Depth from Surface Feet	to Feet	Fill	Description

Attachments

- ☐ Geologic Log
- ☐ Well Construction Diagram
- ☐ Geophysical Log(s)
- ☐ Soil/Water Chemical Analyses
- ☐ Other

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name WDC EXPLORATION & WELLS - CHRIS TATUM

Person, Firm or Corporation

1961 MEEKER AVE Address Richmond City CA State 94804 Zip

Signed C-57 Licensed Water Well Contractor 6/14/11 Date Signed 783326 C-57 License Number

DWR 188 REV. 1/2006

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

ORIGINAL
File with DWR

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

WATER WELL DRILLERS REPORT

Do not fill in

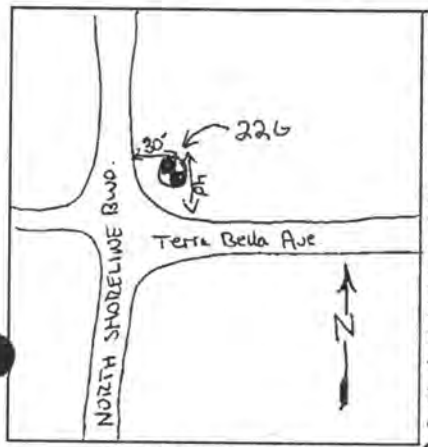
No. 362937

Notice of Intent No. _____
Local Permit No. or Date 90W1440

State Well No. 06S02W15M02A
Other Well No. _____

[redacted]

(2) LOCATION OF WELL (See instructions):
County SANTA CLARA Owner's Well Number 226
Well address if different from above 1045 Shoreline, Mountain View
Township 6S Range 2W Section 16
Distance from cities, roads, railroads, fences, etc. 30' NE from intersection of North Shoreline Blvd. & Terra Bella Ave



WELL LOCATION SKETCH

(3) TYPE OF WORK:
New Well ☒ Deepening ☐
Reconstruction ☐
Reconditioning ☐
Horizontal Well ☐
Destruction ☐ (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:
Domestic ☐
Irrigation ☐
Industrial ☐
Test Well ☒
Municipal ☐
Other ☐
(Describe)

(5) EQUIPMENT:
Rotary ☐ Reverse ☐
Cable ☐ Air ☐
Other ☒ Bucket ☐

(6) GRAVEL PACK:
Yes ☒ No ☐ Size: #2/20 Mesh
Diameter of bore 10"
Packed from 24.0 ft. to 8.0 ft.

(7) CASING INSTALLED:
Steel ☐ Plastic ☒ Concrete ☐

From ft.	To ft.	Dia. in.	Gage or Wall
~~24.0~~	~~0.5~~	4"	Sch. 40
.5	24.0		

(8) PERFORATIONS:
Type of perforation or size of screen

From ft.	To ft.	Slot size
~~24.0~~	~~8.0~~	0.020"
9.0	24.0	

(9) WELL SEAL:
Was surface sanitary seal provided? Yes ☒ No ☐ If yes, to depth 8.0 ft.
Were strata sealed against pollution? Yes ☐ No ☒ Interval _____ ft.
Method of sealing Portland Cement + 5% Bentonite

(10) WATER LEVELS:
Depth of first water, if known 15.0' ft.
Standing level after well completion _____ ft.

(11) WELL TESTS:
Was well test made? Yes ☐ No ☒ If yes, by whom? _____
Type of test Pump ☐ Bailer ☐ Air lift ☐
Depth to water at start of test _____ ft. At end of test _____ ft.
Discharge _____ gal/min after _____ hours Water temperature _____
Chemical analysis made? Yes ☒ No ☐ If yes, by whom? McLaren
Was electric log made Yes ☐ No ☒ If yes, attach copy to this report

(12) WELL LOG: Total depth 35.0 ft. Completed depth 24.0 ft.

from ft.	to ft.	Formation (Describe by color, character, size or material)
		See Attached Soil Drilling Log.

Work started 7/26 19 90 Completed 7/26 19 90

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Signed John Lee (For Itew Drilling) (Well Driller)
NAME Itew Drilling (Person, firm, or corporation) (Typed or printed)
Address 1045 Weeks St.
City E. Palo Alto ZIP 94303
License No. C57-384167 Date of this report 11/2/90

DWR 188 (REV. 12-86) IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM 86 96355

McLaren 963

VOID
NOT FOR PUBLIC USE
WATER CODE SEC. 13752
INITIAL

06S2W15M21A
362937

SOIL DRILLING LOG

McLaren

SB/MW # : MW-22G
D- 21120
Page 1 of 1
Sampler: B. WRIGHT

PROJECT [redacted] LOCATION SEE MAP
ELEVATION 32.67(GS) (MSL) DATE(S) 7/26/90 TOTAL DEPTH 25.0'
MONITORING DEVICE 580B,LEL SCREENED INTERVAL 9-24
SAMPLING METHOD CA. SPLIT SPOON SUBCONTRACTOR & EQPT HEW DRILLING CME-55
PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO
MEMO

Depth Below Surface(ft.)	Penetration Results: Blows 6"-6"-6"	Penetration Results: BPF	Sampler Depth Interval (ft.)	Sample ID #	Hnu reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Sampled Depth
						0.0' - 0.5' ASPHALT and ROAD BASE.	RB		
5'	2-5-7	12	5.0-6.5		5	0.5' - 10.5' SILTY CLAY: (0, 15,45,40); very dark gray (2.5Y3/0); medium plastic fines; stiff; slightly moist. 5.0' gray (2.5Y5/0) with white (2.5Y8.0) and light olive brown (2.5Y5/4) mottles.	CL		
10'	1-3-9	12	10.0-11.5		59				
15'	6-9-12	21	15.0-16.5		219				
20'	3-5-12	17	20.0-21.5		34	10.5' - 35.0' SILTY GRAVEL: (40,40,20,0) greenish gray (5BG5/1); non-plastic fines; coarse sand; well graded; loose; moist to saturated at 15.0'; mild odor. Alternating fine and coarse lenses.	GM		
25'	20-23-28	51	25.0-26.5		9				
30'	6-16-42	58	30.0-31.5		24				

Borehole Abandonment/ Well Construction Details

Vault Box
Locking Well Cap
4" Sch 40 PVC Blank Casing
Portland Cement
7.0'
Granular Bentonite
8.0'
9.0'
4" Sch 40 PVC Well Screen 0.020" Slot
8/20 Mesh Sand Pack
10" Borehole
24.0'
End Cap
Granular Bentonite
35.0'
T.D.

Brie Wright
SIGNATURE OF FIELD SUPERVISOR
ASSOCIATE GEOLOGIST
TITLE

Julie S Menack RG#4440
SIGNATURE OF REVIEWER
SENIOR HYDROGEOLOGIST
TITLE

*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form.

File Original with DWR

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. e0131348

Page 1 of 1

Owner's Well Number MW-226

Date Work Began 6/9/11 Date Work Ended 6/9/11

Local Permit Agency SCVWD

Permit Number 11D00260 Permit Date 6-2-11

DWR Use Only – Do Not Fill In

State Well Number/Site Number: 06S02W15M046

Latitude N Longitude W

APN/TRS/Other

Geologic Log

Orientation ○ Vertical ○ Horizontal ○ Angle Specify

Drilling Method Drilling Fluid

Depth from Surface Feet	to Feet	Description: Describe material, grain size, color, etc
0	230	NONE OBSERVED

RECEIVED
JUN 20 2011
S.C.V.W.D.
WELLS

Total Depth of Boring N/A Feet

Total Depth of Completed Well N/A Feet

Well Owner

[redacted]

Well Location

Address 1005 N SHORELINE BLVD

City MTN. VIEW County SANTA CLARA

Latitude Deg. Min. Sec. N Longitude Deg. Min. Sec. W

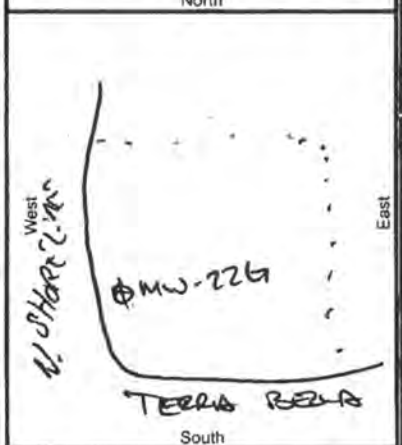
Datum Decimal Lat. Decimal Long.

APN Book 153 Page 15 Parcel 015

Township Range Section

Location Sketch

(Sketch must be drawn by hand after form is printed.)



Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity

○ New Well
○ Modification/Repair
○ Deepen
○ Other
⊗ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

○ Water Supply
☐ Domestic ☐ Public
☐ Irrigation ☐ Industrial
○ Cathodic Protection
○ Dewatering
○ Heat Exchange
○ Injection
⊗ Monitoring
⊗ Remediation
○ Sparging
○ Test Well
○ Vapor Extraction
○ Other

Water Level and Yield of Completed Well

Depth to first water (Feet below surface)

Depth to Static Water Level (Feet) Date Measured

Estimated Yield * (GPM) Test Type

Test Length (Hours) Total Drawdown (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet	to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	230	—	FILLED	W/ NEAT PORTLAND				GROUT

Annular Material

Depth from Surface Feet	to Feet	Fill	Description

Attachments

☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☐ Other

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name WSC Exploration & Wells - CHRIS DATUM
Person, Firm or Corporation

1961 Meeker Ave Richmond CA 94804
Address City State Zip

Signed [signature]
C-57 Licensed Water Well Contractor

6/14/11 Date Signed

783326 C-57 License Number

DWR 188 REV. 1/2006

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form.

File Original with DWR

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. e0130450

Page 1 of 1

Owner's Well Number MW-22F

Date Work Began 6/9/11 Date Work Ended 6/9/11

Local Permit Agency SCVWD

Permit Number 11D00258 Permit Date 6-2-11

DWR Use Only – Do Not Fill In

State Well Number/Site Number: 06S02W15M040

Latitude / Longitude

APN/TRS/Other

Geologic Log

Orientation O Vertical O Horizontal O Angle Specify

Drilling Method Drilling Fluid

Depth from Surface Feet	to Feet	Description Describe material, grain size, color, etc
0	20	NONE OBSERVED

RECEIVED JUN 20 2011 S.C.V.W.D. WELLS

Total Depth of Boring Feet

Total Depth of Completed Well Feet

Well Owner

[redacted]

Well Location

Address 1005 N. SHORELINE BLVD

City Mtn. View County SANTA CLARA

Latitude Deg. Min. Sec. N Longitude Deg. Min. Sec. W

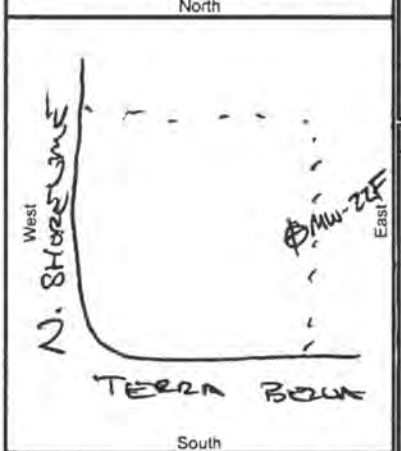
Datum Decimal Lat. Decimal Long.

APN Book 153 Page 15 Parcel 015

Township Range Section

Location Sketch

(Sketch must be drawn by hand after form is printed.)



Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity

- O New Well
- O Modification/Repair
  - O Deepen
  - O Other
- X Destroy
  Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

- O Water Supply
  - ☐ Domestic ☐ Public
  - ☐ Irrigation ☐ Industrial
- O Cathodic Protection
- O Dewatering
- O Heat Exchange
- O Injection
- X Monitoring
- O Remediation
- O Sparging
- O Test Well
- O Vapor Extraction
- O Other

Water Level and Yield of Completed Well

Depth to first water (Feet below surface)

Depth to Static Water Level (Feet) Date Measured

Estimated Yield * (GPM) Test Type

Test Length (Hours) Total Drawdown (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet	to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	20	—	Filled w/ NEAT Portland Grout					

Annular Material

Depth from Surface Feet	to Feet	Fill	Description

Attachments

- ☐ Geologic Log
- ☐ Well Construction Diagram
- ☐ Geophysical Log(s)
- ☐ Soil/Water Chemical Analyses
- ☐ Other

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name CHRISTOPHER GIBBS FOR GIBBS EXPLORATION & WELLS
(Person, Firm or Corporation)

1961 Meeker Ave (Address) Richmond (City) CA (State) 94804 (Zip)

Signed (C-57 Licensed Water Well Contractor) 6/14/11 (Date Signed) C-57 License Number 583326

DWR 188 REV. 1/2006

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

APPENDIX E

EDR RADIUS MAP REPORT, DATED 15 MARCH 2019

1001-1091 Sterlin Rd & 1130-1170 Terra Bella Ave
1001-1091 N Shoreline Blvd & 1062 Linda Vista Ave
Mountain View, CA 94043

Inquiry Number: 5591584.2s
March 15, 2019

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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Detail Map	3
Map Findings Summary	4
Map Findings	9
Orphan Summary	743
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting Source Map	A-7
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Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

1001-1091 N SHORELINE BLVD & 1062 LINDA VISTA AVE
MOUNTAIN VIEW, CA 94043

COORDINATES

Latitude (North):	37.4092510 - 37° 24' 33.30''
Longitude (West):	122.0773120 - 122° 4' 38.32''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	581658.0
UTM Y (Meters):	4140468.8
Elevation:	37 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5641106 MOUNTAIN VIEW, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140606, 20140608
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
1001-1091 N SHORELINE BLVD & 1062 LINDA VISTA AVE
MOUNTAIN VIEW, CA 94043

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	OLIN MESA CORPORATIO	1130 TERRA BELLA	RCRA-SQG, FINDS, ECHO		TP
A2	OLIN MESA CORPORATIO	1130 TERRA BELLA AVE	CA EMI		TP
A3	CALVANO DEVELOPMENT	1001 N SHORELINEBLVD	FINDS		TP
A4	VERIZON WIRELESS HWY	1062 LINDA VISTA AVE	FINDS		TP
A5	CHARLESTON SOUTH GRE	1015 1055 JOAQUIN RD	CA NPDES, CA CIWQS		TP
A6	CALVANO DEVELOPMENT	1001 N SHORELINEBLVD	CA CPS-SLIC, CA HAZNET, CA NPDES, CA CIWQS, CA...		TP
A7	OXIGRAFNA INC.	1170 TERRA BELLA AVE	FINDS		TP
A8	MCCANDLESS LAND AND	1091 N SHORELINE BLV	CA HAZNET		TP
A9	VERIZON WIRELESS HWY	1062 LINDA VISTA AVE	CA CERS		TP
Reg	MOFFETT FIELD NAVAL		DOD	Same	3425, 0.649, East
Reg	MOFFETT NAVAL AIR ST	MOFFETT FIELD NAS	NPL, SEMS, US ENG CONTROLS, US INST CONTROL, ROD,..	Same	3101, 0.587, East
Reg	INTEL CORPORATION	365 MIDDLEFIELD RD	NPL, SEMS, RCRA-SQG, US ENG CONTROLS, US INST...	Same	3921, 0.743, ESE
Reg	EMBARCADERO REALTY S	1300 TERRA BELLA AVE	NPL, SEMS, CORRACTS, US ENG CONTROLS, RCRA NonGen	Same	40, 0.008, West
Reg	SPECTRA-PHYSICS, INC	1250 W MIDDLEFIELD R	NPL, SEMS, CORRACTS, RCRA-SQG, US ENG CONTROLS,...	Same	143, 0.027, SW
Reg	JASCO CHEMICAL CORP.	1710 VILLA ST	NPL, SEMS, RCRA-SQG, US ENG CONTROLS, US INST...	Same	3581, 0.678, SW
Reg	CTS PRINTEX, INC.	PLYMOUTH & COLONY ST	NPL, SEMS, RCRA-SQG, US ENG CONTROLS, US INST...	Same	3733, 0.707, NW
B10	ADVANCED MARINE SERV	1049 LINDA VISTA AV	CA CUPA Listings	Higher	46, 0.009, East
B11	GARD-MORE CIRCUITS I	1066 LINDA VISTA	RCRA-SQG, FINDS, ECHO	Lower	47, 0.009, ENE
B12	CSI MOUNTAIN VIEW	1066/1080 LINDA VIST	CA CPS-SLIC, CA CERS	Lower	47, 0.009, ENE
B13	GARD-MORE CIRCUITS I	1066 LINDA VISTA	RCRA-SQG	Lower	47, 0.009, ENE
C14	AMARANTH MEDICAL	1145 TERRA BELLA AVE	CA CERS HAZ WASTE, CA CERS	Higher	86, 0.016, SE
C15	AMARANTH MEDICAL	1145 TERRA BELLA AV	CA CUPA Listings, CA HAZNET	Higher	86, 0.016, SE
C16	FORMER TELEWAVE PROP	1155 TERRA BELLA AVE	CA CPS-SLIC, CA CUPA Listings	Higher	87, 0.016, SSE
D17	SHIPPEN PROPERTY	1175 TERRA BELLA	CA LUST, CA HIST LUST, CA HIST CORTESE, CA CERS	Higher	88, 0.017, South
D18	TEXACO	975 SHORELINE (STIER	CA LUST, CA HIST LUST	Higher	115, 0.022, SSW
D19	TEXACO (CVX #21-1179	975 SHORELINE BOULEV	CA LUST, CA HIST CORTESE, CA CERS	Higher	115, 0.022, SSW
D20	EXXON	975 N SHORELINE BLVD	CA SWEEPS UST, CA FID UST	Higher	115, 0.022, SSW
E21	TEXACO	975 STIERLIN ROAD AN	CA HIST UST	Higher	119, 0.023, SSW
F22	COMM BLDG	1080 LINDA VISTA AVE	CA HIST UST	Lower	134, 0.025, NE
F23	COMM. BLDG	1080 LINDA VISTA AVE	CA SWEEPS UST, CA FID UST	Lower	134, 0.025, NE
F24	ROBB-JACK CORP.	1080 LINDA VISTA AVE	CA LUST, CA HIST LUST, CA HIST CORTESE, CA CERS	Lower	134, 0.025, NE
E25	HARRIS BROADCAST MIC	967 STIERLIN RD	RCRA-SQG, FINDS, ECHO	Higher	158, 0.030, SSW
B26	JASCO CHEMICAL CO	1090 TERRA BELLA	SEMS-ARCHIVE	Higher	189, 0.036, ESE
B27	JASCO CHEMICAL COMPA	1090 TERRA BELLA AVE	CA LUST	Higher	189, 0.036, ESE
B28	ADVANCED PHOTO CHEMI	1090 TERRA BELLA	CA ENVIROSTOR, CA LUST, CA SWEEPS UST, CA FID UST,..	Higher	189, 0.036, ESE
B29	ADVANCED PHOTO CHEMI	1090 TERRA BELLA AVE	CA HIST UST	Higher	189, 0.036, ESE
D30	INTRA PACE INC	967 N SHORELINE BL	CA CUPA Listings	Higher	261, 0.049, South
D31	RITA MEDICAL SYSTEMS	967 N SHORELINE BL	CA CUPA Listings	Higher	261, 0.049, South
B32	KNIGHTSCOPE INC	1070 TERRA BELLA AV	CA CUPA Listings	Higher	289, 0.055, ESE

MAPPED SITES SUMMARY

Target Property Address:
1001-1091 N SHORELINE BLVD & 1062 LINDA VISTA AVE
MOUNTAIN VIEW, CA 94043

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
B33	EDGE INNOVATIONS	1070 TERRA BELLA AV	CA CUPA Listings	Higher	289, 0.055, ESE
B34	AR'S AUTOMOTIVE	1080 TERRA BELLA	CA CUPA Listings	Higher	289, 0.055, ESE
E35	ABBOTT LAB HOSPITAL	1215 TERRA BELLA AV	CA CUPA Listings	Higher	297, 0.056, SW
C36	FINE PITCH TECHNOLOG	980 LINDA VISTA AV	CA CUPA Listings	Higher	302, 0.057, SE
C37	APPRION	980 LINDA VISTA AV	CA CUPA Listings	Higher	302, 0.057, SE
E38	EXXON	925 SHORELINE	CA HIST CORTESE	Higher	349, 0.066, SSW
G39	TRANS TECH 2000	973 LINDA VISTA AVE	EDR Hist Auto	Higher	359, 0.068, SE
G40	CGI PAINTING-CONTRAC	973 LINDA VISTA AV D	CA CUPA Listings	Higher	359, 0.068, SE
H41	IRIDEX CORPORATION	1212 TERRA BELLA AV	CA CUPA Listings	Higher	362, 0.069, WSW
H42	ABBOTT CRITICAL CARE	1212 TERRA BELLA AV	CA CUPA Listings	Higher	362, 0.069, WSW
H43	IRIDEX CORPORATION	1212 TERRA BELLA AVE	CA CERS HAZ WASTE, CA CERS	Higher	362, 0.069, WSW
H44	ABBOTT CRITICAL CARE	1212 TERRA BELLA AVE	RCRA NonGen / NLR, FINDS, ECHO	Higher	362, 0.069, WSW
H45	ABBOTT LAB HOSPITAL	1212 TERRA BELLA AV	CA CUPA Listings	Higher	362, 0.069, WSW
I46	PLANET LABS	1060 TERRA BELLA AVE	CA CERS HAZ WASTE, CA HAZNET, CA CERS	Higher	421, 0.080, ESE
I47	SKYBOX IMAGING INC	1061 TERRA BELLA AVE	CA CUPA Listings, CA HAZNET	Higher	439, 0.083, ESE
G48	HACKETT PIPELINE INC	963 LINDA VISTA AV	CA CUPA Listings	Higher	466, 0.088, SE
H49	INTRABIOTICS PHARMAC	1245 TERRA BELLA AV	CA CUPA Listings	Higher	501, 0.095, WSW
H50	GOOGLE, INC	1245 TERRA BELLA AV	CA CUPA Listings	Higher	501, 0.095, WSW
G51	FARINON ELEC INC	960 LINDA VISTA AVE	RCRA-SQG, FINDS, ECHO	Higher	510, 0.097, SSE
G52	ABBOTT LAB HOSPITAL	960 LINDA VISTA	CA CUPA Listings	Higher	510, 0.097, SSE
G53	ABLE ELECTRONICS COR	950-960 LINDA VISTA	CA CUPA Listings	Higher	510, 0.097, SSE
G54	GOOGLE LLC - 946	946 LINDA VISTA AVE	CA CERS HAZ WASTE, CA HAZNET, CA CERS	Higher	510, 0.097, SSE
G55	HARRIS BROADCAST MIC	960 LINDA VISTA	CA HIST UST	Higher	510, 0.097, SSE
G56	MARK MERRILL	941 LINDA VISTA AV B	CA CUPA Listings	Higher	538, 0.102, SE
G57	GUARANTEED EXPRESS	941 LINDA VISTA AV	CA CUPA Listings	Higher	538, 0.102, SE
G58	VENEZIA MFG CO INC	941 LINDA VISTA AV	CA CUPA Listings	Higher	538, 0.102, SE
G59	MARK MERRILL	941 LINDA VISTA AVEN	CA CERS HAZ WASTE, CA CERS	Higher	538, 0.102, SE
I60	GOOGLE, INC. - SKYBO	1049 TERRA BELLA AV	CA CUPA Listings	Higher	561, 0.106, ESE
I61	SAVIANO COMPANY, INC	1020 TERRA BELLA AV	CA CUPA Listings	Higher	580, 0.110, ESE
J62	GOOGLE LLC - TB55	1255 TERRA BELLA AV	CA CERS HAZ WASTE, CA CUPA Listings, CA CERS	Lower	618, 0.117, West
63	WEMCO LANDSCAPES	915 LINDA VISTA #B	CA CUPA Listings	Higher	635, 0.120, SE
K64	SCR-SPECTRA-1250 W M	1250 MIDDLEFIELD	CA Cortese, CA ENF, CA HIST CORTESE, CA CIWQS	Higher	705, 0.134, SW
L65	SCCTA - NORTH COACH	1235 L'AVENIDA AVE	CA HIST LUST	Lower	722, 0.137, North
L66	SANTA CLARA COUNT TD	1235 L AVENIDA	CA HIST CORTESE	Lower	722, 0.137, North
L67	RUDOLPH AND SLETTEN	1235 L AVENIDA	CA HIST CORTESE	Lower	722, 0.137, North
L68	SCVTA 1235 L'AVENIDA	1235/1241 L'AVENIDA	CA CPS-SLIC	Lower	722, 0.137, North
L69	NORTH DIVISION	1235 L AVENIDA	CA HIST UST, CA HIST CORTESE, CA NPDES, CA WDS, CA...	Lower	722, 0.137, North
L70	SANTA CLARA VALLEY T	1235 L'AVENIDA	CA LUST, CA SWEEPS UST, CA EMI	Lower	722, 0.137, North
L71	SANTA CLARA VALLEY T	1235 L'AVENIDA	CA AST	Lower	722, 0.137, North

MAPPED SITES SUMMARY

Target Property Address:
1001-1091 N SHORELINE BLVD & 1062 LINDA VISTA AVE
MOUNTAIN VIEW, CA 94043

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
L72	SANTA CLARA COUNTY T	1235 LAVENIDA AVE	CA CPS-SLIC, CA CERS	Lower	722, 0.137, North
J73	TELEDYNE ELECTRONIC	1274 TERRA BELLA AVE	CA HIST UST, CA WDS	Lower	722, 0.137, West
J74	TELEDYNE WIRELESS LL	1274 TERRA BELLA AVE	RCRA-SQG, CA NPDES, CA CIWQS	Lower	722, 0.137, West
J75	ABBOTT LABORATORIES	1277 TERRA BELLA AVE	RCRA-SQG, FINDS, ECHO, CA EMI	Lower	722, 0.137, West
J76	TELEDYNE MICROWAVE	1274 TERRA BELLA AVE	CA CERS HAZ WASTE, CA EMI, CA CERS	Lower	722, 0.137, West
J77	TELEDYNE MICROWAVE	1274 TERRA BELLA AV	CA CUPA Listings, CA HAZNET	Lower	722, 0.137, West
M78	MACROMOLECULAR LLC	1025 TERRA BELLA AV	CA CUPA Listings	Higher	734, 0.139, ESE
M79	WAKO LIFE SCIENCES	1025 TERRA BELLA AVE	RCRA-SQG	Higher	734, 0.139, ESE
M80	BIOMETRIC IMAGING IN	1025 TERRA BELLA AV	CA CUPA Listings, CA HAZNET	Higher	734, 0.139, ESE
M81	FUJIFILM WAKO DIAGNO	1025 TERRA BELLA AVE	CA CERS HAZ WASTE, CA CERS	Higher	734, 0.139, ESE
M82	BD BIOSCIENCES CLONT	1025 TERRA BELLA AV	CA CUPA Listings	Higher	734, 0.139, ESE
M83	B D BIOSCIENCE CLONT	1025 TERRA BELLA AVE	RCRA-SQG, FINDS, ECHO, CA HAZNET	Higher	734, 0.139, ESE
N84	SHORELINE SHELL #59	807 N SHORELINE BLVD	CA UST	Higher	743, 0.141, South
N85	SHELL	807 SHORELINE	CA LUST, CA HIST LUST, CA HIST CORTESE, CA CERS	Higher	743, 0.141, South
N86	SHELL SERVICE STATIO	807 N SHORELINE	RCRA-SQG, FINDS, ECHO, CA CUPA Listings, CA HAZNET	Higher	743, 0.141, South
N87	SHELL	807 N SHORELINE BLVD	CA SWEEPS UST, CA FID UST	Higher	743, 0.141, South
N88	SHELL SERV STATION M	807 STIERLIN RD	RCRA-SQG, FINDS, ECHO	Higher	745, 0.141, SSW
N89	JERAJR PANOSIAN	807 STIERLIN RD	CA HIST UST	Higher	745, 0.141, SSW
K90	PALO ALTO BARKLAND B	1250 WEST MIDDLEFIEL	CA DEED, CA HAZNET, CA CERS	Higher	756, 0.143, SW
K91	SPECTRA-PHYSICS LASE	1250 WEST MIDDLEFIEL	CA CPS-SLIC	Higher	756, 0.143, SW
K92	SPECTRA PHYSICS, INC	1250 W MIDDLEFIELD R	CA ENVIROSTOR, CA HIST Cal-Sites, CA HWP	Higher	756, 0.143, SW
K93	SPECTRA-PHYSICS LASE	1250 WEST MIDDLEFIEL	CA CPS-SLIC	Higher	756, 0.143, SW
N94	96377	808 STIERLIN RD	CA HIST UST	Higher	764, 0.145, SSW
N95	BILL BAILEY CHEVRON	808 SHORELINE BLVD.	CA UST	Higher	767, 0.145, SSW
N96	CHEVRON	808 N SHORELINE BLVD	CA SWEEPS UST	Higher	767, 0.145, SSW
N97	CHEVRON 96377	808 SHORELINE BLVD	CA CPS-SLIC, CA CERS HAZ WASTE, CA CERS TANKS, CA...	Higher	767, 0.145, SSW
N98	CHEVRON #9-6377	808 N SHORELINE BLVD	CA LUST, CA HIST LUST, CA SWEEPS UST, CA FID UST,...	Higher	767, 0.145, SSW
N99	BILL BAILEY CHEVRON	808 N SHORELINE BLVD	CA UST	Higher	767, 0.145, SSW
N100	CHEVRON STATION NO 9	808 N SHORELINE BLVD	RCRA-SQG, CA LUST, FINDS, ECHO, CA CUPA Listings	Higher	767, 0.145, SSW
N101	CHEVRON STATION# 963	808 SHORELINE BLVD.	CA UST	Higher	767, 0.145, SSW
N102	SHORELINE SHELL #59	807 N SHORELINE BLVD	CA CERS HAZ WASTE, CA CERS TANKS, CA CERS	Higher	772, 0.146, SSW
O103	TAKARA BIO USA, INC	1290 TERRA BELLA AVE	CA CERS HAZ WASTE, CA CERS	Lower	848, 0.161, WNW
O104	TAKARA BIO USA, INC.	1290 TERRA BELLA AVE	RCRA-SQG, CA HAZNET	Lower	848, 0.161, WNW
O105	TELEDYNE MICROWAVE	1290 TERRA BELLA AVE	CA HIST UST	Lower	848, 0.161, WNW
O106	BD BIOSCIENCE-CLONTE	1290 TERRA BELLA AV	CA CUPA Listings	Lower	848, 0.161, WNW
O107	TELEDYNE ELECTRONIC	1290 TERRA BELLA AVE	RCRA-CESQG	Lower	848, 0.161, WNW
O108	TELEDYNE MICROWAVE	1290 TERRA	CA HIST UST, CA HAZNET	Lower	848, 0.161, WNW
O109	CLONTECH LABORATORIE	1290 TERRA BELLA AVE	RCRA-LQG, FINDS, ECHO	Lower	848, 0.161, WNW
O110	CLONTECH LABORATORIE	1290 TERRA BELLA AVE	CA AST	Lower	848, 0.161, WNW

MAPPED SITES SUMMARY

Target Property Address:
1001-1091 N SHORELINE BLVD & 1062 LINDA VISTA AVE
MOUNTAIN VIEW, CA 94043

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
O111	TELEDYNE MICROWAVE	1290 TERRA BELLA AV	CA CUPA Listings	Lower	848, 0.161, WNW
P112	GIBSON STUDIO INC	954 SAN RAFAEL AVE	RCRA-SQG, FINDS, ECHO, CA HAZNET	Higher	889, 0.168, ESE
P113	GIBSON STUDIO LLC	954 SAN RAFAEL AV	CA CUPA Listings	Higher	889, 0.168, ESE
O114	SPECTRA-PHYSICS LASE	1344 TERRA BELLA AV	CA CUPA Listings	Lower	918, 0.174, WNW
O115	SPECTRA PHYSICS LASE	1344 TERRA BELLA AV	CA CUPA Listings	Lower	918, 0.174, WNW
O116	DIGITAL EQUIPMENT CO	1400 TERRA BELLA ST	RCRA NonGen / NLR, FINDS, ECHO	Lower	918, 0.174, WNW
O117	SPECTRA-PHYSICS INC	1300 TERRA BELLA AVE	RCRA NonGen / NLR	Lower	918, 0.174, WNW
O118	SPECTRA PHYSICS INC	1344 TERRA BELLA AVE	RCRA-SQG, CA CIWQS	Lower	918, 0.174, WNW
O119	IMAGE ARCHITECTS	1400 TERRA BELLA AV	CA CUPA Listings	Lower	918, 0.174, WNW
O120	SEA LANE BIOTECHNOLO	1400 TERRA BELLA AVE	CA CPS-SLIC, CA CUPA Listings, CA HAZNET, CA CERS	Lower	918, 0.174, WNW
O121	SEA LANE BIOTECHNOLO	1400 TERRA BELLA AV	CA CUPA Listings	Lower	918, 0.174, WNW
O122	MICROCHIP TECHNOLOGY	1300 TERRA BELLA AV	CA CUPA Listings	Lower	918, 0.174, WNW
O123	1300 TERRA BELLA TEL	1300 TERRA BELLA AVE	CA HWP, CA WDS	Lower	918, 0.174, WNW
O124	TDY INDUSTRIES, INC	1300 TERRA BELLA AVE	CA ENVIROSTOR, CA CPS-SLIC, CA HIST Cal-Sites, CA...	Lower	918, 0.174, WNW
N125	JAMES M HALSNE	790 STIERLIN RD	CA HIST UST	Higher	928, 0.176, SSW
M126	J & J GRFX	985 TERRA BELLA AV D	CA CUPA Listings	Higher	934, 0.177, ESE
O127	RUCKER & KOLLS FACIL	1305 TERRA BELLA AVE	CA CPS-SLIC, CA CERS	Lower	962, 0.182, West
Q128	HADAD PETORLEUM INC	790 N SHORELINE BLVD	CA CERS HAZ WASTE, CA SWEEPS UST, CA FID UST, CA...	Higher	962, 0.182, SSW
Q129	ARCO SERVICE STATION	790 NO. SHORELINE	CA LUST, CA DEED, CA Notify 65, CA CERS	Higher	962, 0.182, SSW
Q130	ARCO #6050	790 N SHORELINE BL	CA CUPA Listings	Higher	962, 0.182, SSW
Q131	MOUNTAIN VIEW ARCO	790 SHORELINE BLVD.	CA CERS HAZ WASTE, CA CERS TANKS, CA CERS	Higher	962, 0.182, SSW
Q132	ARCO SMOG PROS STORE	790 N SHORELINE BLVD	CA UST	Higher	962, 0.182, SSW
Q133	AUTOMOTIVE SERVICE C	790 N SHORELINE RD	RCRA-SQG, FINDS, ECHO, CA HAZNET	Higher	962, 0.182, SSW
Q134	MOUNTAIN VIEW ARCO	790 SHORELINE BLVD.	CA UST	Higher	962, 0.182, SSW
Q135	ARCO #6050	790 SHORELINE BLVD	CA LUST, CA HIST LUST, CA HIST CORTESE	Higher	962, 0.182, SSW
P136	EL CAMINO PAVING, IN	924 SAN RAFAEL AV	CA CUPA Listings, CA HAZNET	Higher	976, 0.185, SE
P137	EL CAMINO PAVING	924 SAN RAFAEL AVE	CA LUST, CA HIST LUST, CA HIST CORTESE, CA CERS	Higher	976, 0.185, SE
P138	EL CAMINO PAVING, IN	924 SAN RAFAEL AVENU	CA AST	Higher	976, 0.185, SE
P139	EL CAMINO PAVING	924 SAN RAFAEL AVENU	CA AST	Higher	976, 0.185, SE
R140	SPECTRA PHYSICS OPTI	1330/1340 WEST MIDDL	RCRA NonGen / NLR	Higher	979, 0.185, WSW
S141	WL LARSEN INC	1345 L AVENIDA AVE	CA HIST UST	Lower	1003, 0.190, NNE
S142	W.L. LARSEN INC.	1345 LAVENIDA ST	CA HIST UST	Lower	1003, 0.190, NNE
T143	B&B LANDSCAPE INC	975 TERRA BELLA AVE	CA HIST UST	Higher	1039, 0.197, ESE
T144	WATERPROOFING ASSOCI	975 TERRA BELLA AVEN	CA CERS HAZ WASTE, CA CERS	Higher	1039, 0.197, ESE
T145	WATERPROOFING ASSOCI	975 TERRA BELLA AV	CA SWEEPS UST, CA HIST UST, CA FID UST, CA CUPA...	Higher	1039, 0.197, ESE
T146	NIA CREATIVE	970 TERRA BELLA AV 9	CA CUPA Listings	Higher	1043, 0.198, East
S147	LEO OTT LANDSCAPE IN	1315 LAVENIDA ST	CA HIST UST	Lower	1044, 0.198, NNE
S148	COASTSIDE NURSERY	1360 L'AVENIDA ST	CA HIST LUST	Lower	1054, 0.200, North
S149	COASTSIDE NURSERY	1360 L'AVENIDA AVE	CA LUST, CA HIST CORTESE	Lower	1054, 0.200, North

MAPPED SITES SUMMARY

Target Property Address:
1001-1091 N SHORELINE BLVD & 1062 LINDA VISTA AVE
MOUNTAIN VIEW, CA 94043

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
S150	SURE FLOW INC DBA RO	1330 L'AVENIDA	RCRA NonGen / NLR, FINDS, ECHO	Lower	1066, 0.202, NNE
S151	ROTO-ROOTER SEWER SE	1330 LAVENIDA ST	CA LUST, CA HIST LUST, CA CERS	Lower	1066, 0.202, NNE
S152	ROTO ROOTER SEWER SE	1330 L AVENIDA	CA HIST CORTESE	Lower	1066, 0.202, NNE
153	FEDERAL COLLISION CE	2025B/2 OLD MIDDLEFI	CA CUPA Listings	Higher	1089, 0.206, SSE
U154	JEVELOT	1280 L'AVENIDA	CA CUPA Listings	Lower	1129, 0.214, NNE
V155	JEDA PUBLICATIONS	909 SAN RAFAEL AV A	CA CUPA Listings	Higher	1141, 0.216, SE
V156	PARAMOUNT PRINTING	909 SAN RAFAEL AV B	CA CUPA Listings	Higher	1141, 0.216, SE
V157	JEDA PUBLICATIONS	909 SAN RAFAEL AVE U	RCRA-SQG, FINDS, ECHO, CA EMI, CA HAZNET	Higher	1141, 0.216, SE
U158	SCV TRANS. AUTHORITY	1241 LA AVENIDA ST	CA UST	Lower	1142, 0.216, NNE
U159	AT&T MOBILITY - MOFF	1235 LA AVENIDA ST	CA CERS HAZ WASTE, CA CERS	Lower	1152, 0.218, NNE
U160	VTA NORTH YARD	1235 LA AVENIDA STRE	CA LUST, CA CERS	Lower	1152, 0.218, NNE
U161	SCVTA-NORTH BUS DIVI	1235 LA AVENIDA ST	CA CUPA Listings, CA EMI	Lower	1152, 0.218, NNE
U162	RUDOLPH AND SLETTEN	1260 L AVENIDA	CA HIST UST	Lower	1162, 0.220, NNE
U163	RUDOLPH AND SLETTEN	1260 LAVENIDA ST	CA HIST UST	Lower	1162, 0.220, NNE
R164	SPACE SYSTEMS/LORAL,	1340 W MIDDLEFIELD R	RCRA NonGen / NLR, FINDS, ECHO, CA HAZNET	Higher	1177, 0.223, WSW
R165	SPACE SYSTEMS/LORAL	1340 W MIDDLEFIELD R	CA CUPA Listings	Higher	1177, 0.223, WSW
U166	SCVTA-NORTH BUS DIVI	1235 L'AVENIDA AV	CA AST	Lower	1177, 0.223, NNE
U167	SCVTA-NORTH BUS DIVI	1235 L'AVENIDA AV	CA UST	Lower	1177, 0.223, NNE
U168	NORTH DIVISION	1235 LAVENIDA ST	CA HIST UST	Lower	1177, 0.223, NNE
U169	RUDOLPH AND SLETTEN	1250 L'AVENIDA	RCRA-SQG, CA LUST, CA HIST LUST, CA SWEEPS UST, CA..	Lower	1179, 0.223, NNE
U170	RUDOLPH AND SLETTEN	1250 L AVENIDA	CA HIST UST	Lower	1179, 0.223, NNE
U171	RUDOLPH AND SLETTEN	1250 LAVENIDA ST	CA HIST UST	Lower	1179, 0.223, NNE
U172	RUDOLPH & SLETTEN IN	1250 LAVENIDA AV	CA CUPA Listings	Lower	1179, 0.223, NNE
U173	RUDOLPH & SLETTEN IN	1250 LA AVENIDA ST	CA UST	Lower	1179, 0.223, NNE
U174	PEAR AVENUE AND LA A	1250 L'AVENIDA	CA LUST	Lower	1179, 0.223, NNE
T175	CALIFORNIA CUSTOM CY	939 TERRA BELLA AV A	CA CUPA Listings	Higher	1183, 0.224, ESE
T176	MERCEDES WERKSTATT	939 TERRA BELLA AVEN	CA CERS HAZ WASTE, CA CERS	Higher	1183, 0.224, ESE
T177	CALVAC PAVING & SEAL	939 TERRA BELLA	CA CUPA Listings	Higher	1183, 0.224, ESE
T178	COMMERCIAL PRINTING	939 TERRA BELLA AV A	CA CUPA Listings	Higher	1183, 0.224, ESE
T179	AUTO MOTOR UND SPORT	939 TERRA BELLA AV	CA CUPA Listings	Higher	1183, 0.224, ESE
T180	MERCEDES WERKSTATT	939 TERRA BELLA AV B	CA CUPA Listings	Higher	1183, 0.224, ESE
T181	PEDRO'S AUTO CLINIC	939 TERRA BELLA AV B	CA CUPA Listings	Higher	1183, 0.224, ESE
182	SPECTRA-PHYSICS INC	1330 TERRA BELLA AV	CA CUPA Listings	Lower	1234, 0.234, WNW
T183	FOOTHILL DISPOSAL CO	935 TERRA BELLA AVE	RCRA-SQG, CA SWRCY, FINDS, ECHO, CA CUPA Listings,...	Higher	1235, 0.234, East
T184	RECOLOGY MOUNTAIN VI	935 TERRA BELLA AVEN	CA CERS HAZ WASTE, CA CERS	Higher	1235, 0.234, East
T185	SCC HHW SITE-FOOTHIL	935 TERRA BELLA AV	CA CUPA Listings	Higher	1235, 0.234, East
186	GOOGLE - 1400 NORTH	1400 NORTH SHORELINE	CA CPS-SLIC, CA CERS	Lower	1490, 0.282, NNW
187	SIMMONS, RICHARD L &	760 SAN PABLO	CA HIST CORTESE	Higher	1502, 0.284, ESE
188	GOODSELL & VOCKE	1401 N SHORELINE BLV	CA LUST, CA HIST LUST, CA CERS	Lower	1524, 0.289, North

MAPPED SITES SUMMARY

Target Property Address:
1001-1091 N SHORELINE BLVD & 1062 LINDA VISTA AVE
MOUNTAIN VIEW, CA 94043

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
189	LGM MANUFACTURING	723 STIERLIN ROAD	CA RESPONSE, CA ENVIROSTOR, CA HIST Cal-Sites, CA...	Higher	1542, 0.292, South
W190	KAISER SAND & GRAVEL	1065 L'AVENIDA AVE	CA LUST, CA CPS-SLIC, CA HIST LUST, CA HIST...	Lower	1641, 0.311, ENE
W191	RAISCH COMPANY	1105 L AVENIDA	CA HIST CORTESE	Lower	1641, 0.311, ENE
W192	KAISER	1065 L'AVENIDA	CA LUST, CA SWEEPS UST, CA FID UST, CA CERS	Lower	1641, 0.311, ENE
193	PRECISION PHOTOGLASS	1090 B LAVENIDA AVE	CA CPS-SLIC, CA CERS	Lower	1655, 0.313, NE
X194	PEAR AVENUE AND LA A	1285 PEAR AVE	CA LUST, CA CERS	Lower	1744, 0.330, NNE
X195	LOS ALTOS GARBAGE	1285 PEAR	CA LUST, CA HIST LUST, CA HAZNET, CA HIST CORTESE	Lower	1744, 0.330, NNE
196	PEAR AVENUE AND LA A	1255 PEAR AVENUE	CA CPS-SLIC, CA NPDES, CA CIWQS, CA CERS	Lower	1816, 0.344, NNE
X197	PEAR AVENUE DEVELOPM	1260 PEAR AVENUE	CA CPS-SLIC, CA CERS	Lower	1888, 0.358, NNE
X198	BEST-WAY TRANSPORTAT	1280 PEAR AVE	CA LUST, CA HIST LUST, CA SWEEPS UST, CA FID UST	Lower	1993, 0.377, North
X199	STOMPER COMPANY	1340 PEAR AVE	CA LUST, CA HIST LUST, CA HIST UST, CA HIST...	Lower	1993, 0.377, North
X200	TNT BESTWAY TRANSPOR	1280 PEAR AVE	CA LUST, CA HIST CORTESE, CA CERS	Lower	1993, 0.377, North
Y201	ANTYPAS	1599/1601 NORTH SHOR	CA CPS-SLIC, CA CERS	Lower	2101, 0.398, North
Y202	SHORELINE HOTEL	1625 NORTH SHORELINE	CA CPS-SLIC, CA HAZNET, CA NPDES, CA CIWQS, CA...	Lower	2291, 0.434, North
Z203	MOUNTAIN VIEW WHISMA	1695 ROCK ST	CA HIST CORTESE, CA NPDES, CA WDS, CA CIWQS	Lower	2318, 0.439, WNW
AA204	MOFFETT GATEWAY	750 MOFFETT BOULEVAR	CA CPS-SLIC	Higher	2329, 0.441, ESE
AA205	FORMER VECTOR CONTRO	750 MOFFETT BLVD	CA ENVIROSTOR, CA VCP, CA SWEEPS UST, CA FID UST,...	Higher	2329, 0.441, ESE
Z206	CRITTENDEN INTERMEDI	1701 ROCK ST	CA LUST, CA HIST CORTESE, CA CERS	Lower	2343, 0.444, WNW
Z207	WHISMAN SD CRITTENDE	1701 ROCK ST	RCRA-SQG, CA LUST, CA HIST LUST, FINDS, ECHO	Lower	2343, 0.444, WNW
AA208	HIGHWAY 101 AND MOFF	HIGHWWAY 101/85/MOFF	SEMS	Higher	2350, 0.445, ESE
AB209	UNOCAL #4769	510 SHORELINE BLVD	CA LUST, CA HIST LUST	Higher	2360, 0.447, South
AB210	UNOCAL #4769	510 SHORELINE BLVD	CA LUST, CA HIST CORTESE, CA CERS	Higher	2360, 0.447, South
AC211	PLYMOUTH GROUP	1616 SHORELINE	CA HIST CORTESE	Lower	2360, 0.447, North
AC212	SYSTEM BIOSCIENCES L	1616 N SHORELINE BLV	CA CPS-SLIC, CA HAZNET, CA CERS	Lower	2360, 0.447, North
AD213	BUFFALOW'S INC.	1245 SPACE PARK WY	CA LUST, CA HIST LUST, CA HIST CORTESE	Lower	2414, 0.457, NNE
AD214	TCI	1245 1675 SPACE PKWY	CA CPS-SLIC	Lower	2431, 0.460, NNE
215	IMCS	1300 SPACE PARK WY	CA LUST, CA HIST LUST, CA HIST CORTESE, CA CERS	Lower	2444, 0.463, North
216	EMT LABS	1547 PLYMOUTH ST	CA CPS-SLIC, CA CERS	Lower	2482, 0.470, NNW
AE217	ELEXSYS INTERNATIONA	1625 PLYMOUTH STREET	CA ENVIROSTOR, CA CPS-SLIC, CA EMI	Lower	2521, 0.477, NW
AE218	MONTWOOD	1625 PLYMOUTH ST	CA DEED, CA CHMIRS, CA WDS, CA CIWQS, CA CERS	Lower	2521, 0.477, NW
219	MT. VIEW JONES HALL	1776 OLD MIDDLE FIEL	CA ENVIROSTOR, CA HIST Cal-Sites	Lower	2983, 0.565, NW
220	CALWEST PROPERTIES (	465 SIERRA VISTA AVE	CA ENVIROSTOR, CA VCP, CA DEED	Higher	3254, 0.616, West
221	CAMELLIA PARK DEVELO	333 STIERLIN ROAD	CA ENVIROSTOR	Higher	3594, 0.681, South
AF222	ACUSON CORP., BLDG J	1245 CHARLESTON ROAD	CA ENVIROSTOR	Lower	3725, 0.705, NNE
223	CTS PRINTEX CORPORAT	1950 COLONY STREET	CA BOND EXP. PLAN	Lower	3739, 0.708, NW
AF224	ACUSON CORP., BLDG F	1215 CHARLESTON ROAD	CA ENVIROSTOR	Lower	3761, 0.712, NNE
225	MOFFETT MIL AIRFIELD		CA ENVIROSTOR	Lower	3822, 0.724, East
226	INNERCONN TECH & UNI	327 MOFFETT	CA RESPONSE, CA ENVIROSTOR, CA CPS-SLIC, CA DEED,..	Higher	3887, 0.736, South
227	CS SERVICES	1978 PLYMOUTH STREET	CA Notify 65	Lower	4626, 0.876, NW

MAPPED SITES SUMMARY

Target Property Address:
1001-1091 N SHORELINE BLVD & 1062 LINDA VISTA AVE
MOUNTAIN VIEW, CA 94043

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
AG228	EVELYN AVENUE PARKIN	SOUTHEAST CORNER OF	CA ENVIROSTOR, CA VCP	Higher	4838, 0.916, South
AH229	1710 VILLA ST., JASC	1710 VILLA	CA ENVIROSTOR, CA HIST UST, CA ENF, CA CIWQS, CA...	Higher	5044, 0.955, SW
AH230	JASCO CHEMICAL CO	1710 VILLA STREET	CA HIST Cal-Sites	Higher	5044, 0.955, SW
AH231	JASCO CHEMICAL CORPO	1710 VILLA STREET	CA BOND EXP. PLAN, CA EMI	Higher	5044, 0.955, SW
AG232	FREMONT LAUNDRY	990 VILLA STREET	CA ENVIROSTOR, CA VCP	Higher	5045, 0.955, South
AG233	TIED HOUSE BREWING S	954 VILLA STREET	CA ENVIROSTOR, CA VCP	Higher	5068, 0.960, South

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
OLIN MESA CORPORATIO 1130 TERRA BELLA MOUNTAIN VIEW, CA 94043	RCRA-SQG EPA ID:: CAD981395205 FINDS Registry ID:: 110002692676 ECHO Registry ID: 110002692676	CAD981395205
OLIN MESA CORPORATIO 1130 TERRA BELLA AVE MOUNTAIN VIEW, CA 94043	CA EMI Facility Id: 2163	N/A
CALVANO DEVELOPMENT 1001 N SHORELINEBLVD MOUNTAIN VIEW, CA 94043	FINDS Registry ID:: 110066114074	N/A
VERIZON WIRELESS HWY 1062 LINDA VISTA AVE MOUNTAIN VIEW, CA 94043	FINDS Registry ID:: 110066612847	N/A
CHARLESTON SOUTH GRE 1015 1055 JOAQUIN RD MOUNTAIN VIEW, CA 94043	CA NPDES CA CIWQS	N/A
CALVANO DEVELOPMENT 1001 N SHORELINEBLVD MOUNTAIN VIEW, CA 94043	CA CPS-SLIC Database: CPS-SLIC, Date of Government Version: 12/10/2018 Facility Status: Open - Assessment & Interim Remedial Action Global Id: T10000007375 CA HAZNET GEPAID: CAC002830933 CA NPDES Facility Status: Active CA CIWQS CA CERS	N/A
OXIGRAFNA INC. 1170 TERRA BELLA AVE MOUNTAIN VIEW, CA 94043	FINDS Registry ID:: 110064921072	N/A
MCCANDLESS LAND AND 1091 N SHORELINE BLV MOUNTAIN VIEW, CA 94043	CA HAZNET	N/A

EXECUTIVE SUMMARY

GEPAID: CAC002223889

VERIZON WIRELESS HWY
1062 LINDA VISTA AVE
MOUNTAIN VIEW, CA 94043

CA CERS

N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

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 non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State and tribal landfill and/or solid waste disposal site lists

CA SWF/LF ---------- Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

EXECUTIVE SUMMARY

State and tribal registered storage tank lists

FEMA UST ---- Underground Storage Tank Listing
INDIAN UST ---- Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP ---- Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

CA BROWNFIELDS ---- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

CA WMUDS/SWAT ---- Waste Management Unit Database
CA HAULERS ---- Registered Waste Tire Haulers Listing
INDIAN ODI ---- Report on the Status of Open Dumps on Indian Lands
ODI ---- Open Dump Inventory
DEBRIS REGION 9 ---- Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS ---- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---- Delisted National Clandestine Laboratory Register
CA SCH ---- School Property Evaluation Program
CA CDL ---- Clandestine Drug Labs
CA Toxic Pits ---- Toxic Pits Cleanup Act Sites
US CDL ---- National Clandestine Laboratory Register

Local Land Records

CA LIENS ---- Environmental Liens Listing
LIENS 2 ---- CERCLA Lien Information

Records of Emergency Release Reports

HMIRS ---- Hazardous Materials Information Reporting System
CA LDS ---- Land Disposal Sites Listing
CA MCS ---- Military Cleanup Sites Listing
CA SPILLS 90 ---- SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS ---- Formerly Used Defense Sites
SCRD DRYCLEANERS ---- State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ---- Financial Assurance Information

EXECUTIVE SUMMARY

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
PADS - PCB Activity Database System
FTTS - FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS - Material Licensing Tracking System
COAL ASH DOE - Steam-Electric Plant Operation Data
COAL ASH EPA - Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER - PCB Transformer Registration Database
RADINFO - Radiation Information Database
HIST FTTS - FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS - Incident and Accident Data
INDIAN RESERV - Indian Reservations
FUSRAP - Formerly Utilized Sites Remedial Action Program
UMTRA - Uranium Mill Tailings Sites
LEAD SMELTERS - Lead Smelter Sites
US AIRS - Aerometric Information Retrieval System Facility Subsystem
US MINES - Mines Master Index File
ABANDONED MINES - Abandoned Mines
UXO - Unexploded Ordnance Sites
DOCKET HWC - Hazardous Waste Compliance Docket Listing
FUELS PROGRAM - EPA Fuels Program Registered Listing
CA DRYCLEANERS - Cleaner Facilities
CA Financial Assurance - Financial Assurance Information Listing
CA ICE - ICE
CA HWT - Registered Hazardous Waste Transporter Database
CA MINES - Mines Site Location Listing
CA MWMP - Medical Waste Management Program Listing
CA PEST LIC - Pesticide Regulation Licenses Listing
CA PROC - Certified Processors Database
CA SAN JOSE HAZMAT - Hazardous Material Facilities
CA UIC - UIC Listing
CA UIC GEO - UIC GEO (GEOTRACKER)
CA WASTEWATER PITS - Oil Wastewater Pits Listing
CA MILITARY PRIV SITES - MILITARY PRIV SITES (GEOTRACKER)
CA PROJECT - PROJECT (GEOTRACKER)
CA WDR - Waste Discharge Requirements Listing
CA WIP - Well Investigation Program Case List
CA OTHER OIL GAS - OTHER OIL & GAS (GEOTRACKER)
CA PROD WATER PONDS - PROD WATER PONDS (GEOTRACKER)
CA SAMPLING POINT - SAMPLING POINT (GEOTRACKER)
CA WELL STIM PROJ - Well Stimulation Project (GEOTRACKER)

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP - EDR Proprietary Manufactured Gas Plants
EDR Hist Cleaner - EDR Exclusive Historical Cleaners

EXECUTIVE SUMMARY

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

CA RGA LF ---------- Recovered Government Archive Solid Waste Facilities List
CA 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 12/12/2018 has revealed that there are 6 NPL sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MOFFETT NAVAL AIR ST Cerclis ID:: 902734 EPA Id: CA2170090078	***MOFFETT FIELD NAS***	***E 1/2 - 1 (0.587 mi.)***	***0***	***27***
INTEL CORPORATION Cerclis ID:: 901482 EPA Id: CAD061620217	***365 MIDDLEFIELD RD***	***ESE 1/2 - 1 (0.743 mi.)***	***0***	***54***
EMBARCADERO REALTY S Cerclis ID:: 901134 EPA Id: CAD009111444	***1300 TERRA BELLA AVE***	***W 0 - 1/8 (0.008 mi.)***	***0***	***73***
SPECTRA-PHYSICS, INC Cerclis ID:: 900252 EPA Id: CAD009138488	***1250 W MIDDLEFIELD R***	***SW 0 - 1/8 (0.027 mi.)***	***0***	***105***
JASCO CHEMICAL CORP. Cerclis ID:: 901126 EPA Id: CAD009103318	***1710 VILLA ST***	***SW 1/2 - 1 (0.678 mi.)***	***0***	***120***
CTS PRINTEX, INC.	***PLYMOUTH & COLONY ST***	***NW 1/2 - 1 (0.707 mi.)***	***0***	***134***

Cerclis ID:: 901206
EPA Id: CAD009212838

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 12/12/2018 has revealed that there are 3 SEMS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EMBARCADERO REALTY S Site ID: 0901134 EPA Id: CAD009111444	***1300 TERRA BELLA AVE***	***W 0 - 1/8 (0.008 mi.)***	***0***	***73***
SPECTRA-PHYSICS, INC Site ID: 0900252 EPA Id: CAD009138488	***1250 W MIDDLEFIELD R***	***SW 0 - 1/8 (0.027 mi.)***	***0***	***105***
HIGHWAY 101 AND MOFF Site ID: 0906131 EPA Id: CAN000906131	HIGHWWAY 101/85/MOFF	ESE 1/4 - 1/2 (0.445 mi.)	AA208	670

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 12/13/2018 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
JASCO CHEMICAL CO Site ID: 0902499	1090 TERRA BELLA	ESE 0 - 1/8 (0.036 mi.)	B26	189

EXECUTIVE SUMMARY

EPA Id: CAD981677107

Federal RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 03/01/2018 has revealed that there are 2 CORRACTS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EMBARCADERO REALTY S EPA ID:: CAD009111444	***1300 TERRA BELLA AVE***	***W 0 - 1/8 (0.008 mi.)***	***0***	***73***
SPECTRA-PHYSICS, INC EPA ID:: CAD009138488	***1250 W MIDDLEFIELD R***	***SW 0 - 1/8 (0.027 mi.)***	***0***	***105***

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 03/01/2018 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CLONTECH LABORATORIE EPA ID:: CAL000299446	***1290 TERRA BELLA AVE***	***WNW 1/8 - 1/4 (0.161 mi.)***	***O109***	***418***

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/01/2018 has revealed that there are 19 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SPECTRA-PHYSICS, INC EPA ID:: CAD009138488	***1250 W MIDDLEFIELD R***	***SW 0 - 1/8 (0.027 mi.)***	***0***	***105***
HARRIS BROADCAST MIC	***967 STIERLIN RD***	***SSW 0 - 1/8 (0.030 mi.)***	***E25***	***187***

EPA ID:: CAD981369150				
FARINON ELEC INC	***960 LINDA VISTA AVE***	***SSE 0 - 1/8 (0.097 mi.)***	***G51***	***219***
EPA ID:: CAD063565782				
WAKO LIFE SCIENCES	1025 TERRA BELLA AVE	ESE 1/8 - 1/4 (0.139 mi.)	M79	310
EPA ID:: CAR000259903				
B D BIOSCIENCE CLONT	***1025 TERRA BELLA AVE***	***ESE 1/8 - 1/4 (0.139 mi.)***	***M83***	***323***
EPA ID:: CAR000107698				
SHELL SERVICE STATIO	***807 N SHORELINE***	***S 1/8 - 1/4 (0.141 mi.)***	***N86***	***332***
EPA ID:: CAR000103150				
SHELL SERV STATION M	***807 STIERLIN RD***	***SSW 1/8 - 1/4 (0.141 mi.)***	***N88***	***337***
EPA ID:: CAD980675904				
CHEVRON STATION NO 9	***808 N SHORELINE BLVD***	***SSW 1/8 - 1/4 (0.145 mi.)***	***N100***	***364***
EPA ID:: CAR000119206				
GIBSON STUDIO INC	***954 SAN RAFAEL AVE***	***ESE 1/8 - 1/4 (0.168 mi.)***	***P112***	***422***
EPA ID:: CAD983661208				
AUTOMOTIVE SERVICE C	***790 N SHORELINE RD***	***SSW 1/8 - 1/4 (0.182 mi.)***	***Q133***	***508***
EPA ID:: CAD982487811				
JEDA PUBLICATIONS	***909 SAN RAFAEL AVE U***	***SE 1/8 - 1/4 (0.216 mi.)***	***V157***	***543***
EPA ID:: CAD983623851				
FOOTHILL DISPOSAL CO	***935 TERRA BELLA AVE***	***E 1/8 - 1/4 (0.234 mi.)***	***T183***	***584***
EPA ID:: CAD983670845				

Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
GARD-MORE CIRCUITS I	***1066 LINDA VISTA***	***ENE 0 - 1/8 (0.009 mi.)***	***B11***	***156***
EPA ID:: CAT080027147				
GARD-MORE CIRCUITS I	1066 LINDA VISTA	ENE 0 - 1/8 (0.009 mi.)	B13	159
EPA ID:: CAD056462005				
TELEDYNE WIRELESS LL	***1274 TERRA BELLA AVE***	***W 1/8 - 1/4 (0.137 mi.)***	***J74***	***273***
EPA ID:: CAD980665723				
ABBOTT LABORATORIES	***1277 TERRA BELLA AVE***	***W 1/8 - 1/4 (0.137 mi.)***	***J75***	***291***
EPA ID:: CAD983670431				
TAKARA BIO USA, INC.	***1290 TERRA BELLA AVE***	***WNW 1/8 - 1/4 (0.161 mi.)***	***O104***	***407***
EPA ID:: CAR000203356				
SPECTRA PHYSICS INC	***1344 TERRA BELLA AVE***	***WNW 1/8 - 1/4 (0.174 mi.)***	***O118***	***429***
EPA ID:: CAT080012735				
RUDOLPH AND SLETTEN	***1250 L'AVENIDA***	***NNE 1/8 - 1/4 (0.223 mi.)***	***U169***	***565***
EPA ID:: CAD982475477				

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 03/01/2018 has revealed that there is

1 RCRA-CESQG site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
TELEDYNE ELECTRONIC EPA ID:: CAD095992517	1290 TERRA BELLA AVE	WNW 1/8 - 1/4 (0.161 mi.)	O107	415

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 01/31/2019 has revealed that there are 2 US ENG CONTROLS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EMBARCADERO REALTY S EPA ID:: CAD009111444 EPA ID:: CAD009111444	***1300 TERRA BELLA AVE***	***W 0 - 1/8 (0.008 mi.)***	***0***	***73***
SPECTRA-PHYSICS, INC EPA ID:: CAD009138488 EPA ID:: CAD009138488	***1250 W MIDDLEFIELD R***	***SW 0 - 1/8 (0.027 mi.)***	***0***	***105***

State- and tribal - equivalent NPL

CA 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 CA RESPONSE list, as provided by EDR, has revealed that there are 2 CA RESPONSE sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LGM MANUFACTURING Database: RESPONSE, Date of Government Version: 01/28/2019 Status: Certified Facility Id: 43390003	***723 STIERLIN ROAD***	***S 1/4 - 1/2 (0.292 mi.)***	***189***	***603***
INNERCONN TECH & UNI Database: RESPONSE, Date of Government Version: 01/28/2019 Status: Refer: RWQCB Facility Id: 43360066	***327 MOFFETT***	***S 1/2 - 1 (0.736 mi.)***	***226***	***709***

State- and tribal - equivalent CERCLIS

CA 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 CA ENVIROSTOR list, as provided by EDR, and dated 01/28/2019 has revealed that there are 18 CA ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CTS PRINTEX, INC.	***PLYMOUTH & COLONY ST***	***NW 1/2 - 1 (0.707 mi.)***	***0***	***134***
Facility Id: 43360083				
Status: Refer: RWQCB				
ADVANCED PHOTO CHEMI	***1090 TERRA BELLA***	***ESE 0 - 1/8 (0.036 mi.)***	***B28***	***191***
Facility Id: 43280111				
Status: Refer: RCRA				
SPECTRA PHYSICS, INC	***1250 W MIDDLEFIELD R***	***SW 1/8 - 1/4 (0.143 mi.)***	***K92***	***342***
Facility Id: 43360084				
Facility Id: 80001604				
Status: Refer: RWQCB				
LGM MANUFACTURING	***723 STIERLIN ROAD***	***S 1/4 - 1/2 (0.292 mi.)***	***189***	***603***
Facility Id: 43390003				
Status: Certified				
FORMER VECTOR CONTRO	***750 MOFFETT BLVD***	***ESE 1/4 - 1/2 (0.441 mi.)***	***AA205***	***650***
Facility Id: 60000183				
Status: Certified				
CALWEST PROPERTIES (	***465 SIERRA VISTA AVE***	***W 1/2 - 1 (0.616 mi.)***	***220***	***692***
Facility Id: 43010004				
Status: Certified O&M - Land Use Restrictions Only				
CAMELLIA PARK DEVELO	333 STIERLIN ROAD	S 1/2 - 1 (0.681 mi.)	221	705
Facility Id: 43150002				
Status: Refer: Other Agency				
INNERCONN TECH & UNI	***327 MOFFETT***	***S 1/2 - 1 (0.736 mi.)***	***226***	***709***
Facility Id: 43360066				
Status: Refer: RWQCB				
EVELYN AVENUE PARKIN	***SOUTHEAST CORNER OF***	***S 1/2 - 1 (0.916 mi.)***	***AG228***	***722***
Facility Id: 60000745				
Status: No Further Action				
1710 VILLA ST., JASC	***1710 VILLA***	***SW 1/2 - 1 (0.955 mi.)***	***AH229***	***725***
Facility Id: 43280119				
Status: Refer: RWQCB				
FREMONT LAUNDRY	***990 VILLA STREET***	***S 1/2 - 1 (0.955 mi.)***	***AG232***	***734***
Facility Id: 60001426				
Status: Active				
TIED HOUSE BREWING S	***954 VILLA STREET***	***S 1/2 - 1 (0.960 mi.)***	***AG233***	***739***
Facility Id: 60002038				
Status: Active				

Lower Elevation	Address	Direction / Distance	Map ID	Page
TDY INDUSTRIES, INC	***1300 TERRA BELLA AVE***	***WNW 1/8 - 1/4 (0.174 mi.)***	***O124***	***437***

Facility Id: 43360082
Facility Id: 71002253
Facility Id: 80001590
Status: Refer: RWQCB
Status: Inactive - Needs Evaluation

ELEXSYS INTERNATIONA	***1625 PLYMOUTH STREET***	***NW 1/4 - 1/2 (0.477 mi.)***	***AE217***	***681***
Facility Id: 71002873 Status: Refer: RWQCB				
MT. VIEW JONES HALL	***1776 OLD MIDDLE FIEL***	***NW 1/2 - 1 (0.565 mi.)***	***219***	***689***
Facility Id: 43970003 Status: Refer: RWQCB				
ACUSON CORP., BLDG J	1245 CHARLESTON ROAD	NNE 1/2 - 1 (0.705 mi.)	AF222	706
Facility Id: 71003398 Status: Inactive - Needs Evaluation				
ACUSON CORP., BLDG F	1215 CHARLESTON ROAD	NNE 1/2 - 1 (0.712 mi.)	AF224	707
Facility Id: 71003109 Status: No Action Required				
MOFFETT MIL AIRFIELD		E 1/2 - 1 (0.724 mi.)	225	708
Facility Id: 80000017 Status: No Further Action				

State and tribal leaking storage tank lists

CA 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 CA LUST list, as provided by EDR, has revealed that there are 32 CA LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SHIPPEN PROPERTY	***1175 TERRA BELLA***	***S 0 - 1/8 (0.017 mi.)***	***D17***	***169***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014 Database: LUST REG 2, Date of Government Version: 09/30/2004 Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Facility Status: Case Closed Date Closed: 07/17/2001 Global Id: T0608502131 SCVWD ID: 06S2W15M03F date9: 7/17/2001				
TEXACO	***975 SHORELINE (STIER***	***SSW 0 - 1/8 (0.022 mi.)***	***D18***	***172***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014 Database: LUST REG 2, Date of Government Version: 09/30/2004 Facility Status: Pollution Characterization Date Closed: 07/01/2011 SCVWD ID: 06S2W15M02F				
TEXACO (CVX #21-1179	***975 SHORELINE BOULEV***	***SSW 0 - 1/8 (0.022 mi.)***	***D19***	***173***
Database: LUST, Date of Government Version: 12/10/2018				

Status: Completed - Case Closed
Global Id: T0608598655

JASCO CHEMICAL COMPA 1090 TERRA BELLA AVE ESE 0 - 1/8 (0.036 mi.) B27 190
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Id: 43-1955
Facility Status: Case Closed
date9: 10/1/1997

ADVANCED PHOTO CHEMI ***1090 TERRA BELLA*** ***ESE 0 - 1/8 (0.036 mi.)*** ***B28*** ***191***
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Global Id: T0608591780

SHELL ***807 SHORELINE*** ***S 1/8 - 1/4 (0.141 mi.)*** ***N85*** ***327***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Status: Pollution Characterization
Date Closed: 08/06/2008
Global Id: T0608501309
SCVWD ID: 06S2W15N01F

CHEVRON #9-6377 ***808 N SHORELINE BLVD*** ***SSW 1/8 - 1/4 (0.145 mi.)*** ***N98*** ***362***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Pollution Characterization
Date Closed: 05/18/2005
SCVWD ID: 06S2W16J01F

CHEVRON STATION NO 9 ***808 N SHORELINE BLVD*** ***SSW 1/8 - 1/4 (0.145 mi.)*** ***N100*** ***364***
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Global Id: T0608501749

ARCO SERVICE STATION ***790 NO. SHORELINE*** ***SSW 1/8 - 1/4 (0.182 mi.)*** ***Q129*** ***475***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Date Closed: 07/26/2004
Global Id: T0608500185
SCVWD ID: 06S2W16R01F

ARCO #6050 ***790 SHORELINE BLVD*** ***SSW 1/8 - 1/4 (0.182 mi.)*** ***Q135*** ***512***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Case Closed
date9: 7/26/2004

EL CAMINO PAVING ***924 SAN RAFAEL AVE*** ***SE 1/8 - 1/4 (0.185 mi.)*** ***P137*** ***514***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Status: Case Closed
Date Closed: 03/14/2001
Global Id: T0608500547
SCVWD ID: 06S2W15L01F
date9: 3/14/2001

UNOCAL #4769 ***510 SHORELINE BLVD*** ***S 1/4 - 1/2 (0.447 mi.)*** ***AB209*** ***670***
Database: LUST REG 2, Date of Government Version: 09/30/2004

Facility Status: Case Closed
date9: 11/4/1996

UNOCAL #4769 ***510 SHORELINE BLVD*** ***S 1/4 - 1/2 (0.447 mi.)*** ***AB210*** ***671***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Date Closed: 11/04/1996
Global Id: T0608501555
SCVWD ID: 06S2W21A01F

Lower Elevation	Address	Direction / Distance	Map ID	Page

ROBB-JACK CORP. ***1080 LINDA VISTA AVE*** ***NE 0 - 1/8 (0.025 mi.)*** ***F24*** ***184***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Status: Case Closed
Date Closed: 06/26/1996
Global Id: T0608501111
SCVWD ID: 06S2W15M01F
date9: 6/26/1996

SANTA CLARA VALLEY T ***1235 L'AVENIDA*** ***N 1/8 - 1/4 (0.137 mi.)*** ***L70*** ***258***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Id: 43-2184
Facility Id: 43-2183
Facility Id: 43-2185
Facility Id: 43-1243
Facility Status: Case Closed
Date Closed: 09/11/1997
Global Id: T0608501221
Global Id: T0608502006
Global Id: T0608502008
Global Id: T0608502007
SCVWD ID: 06S2W15E03F
date9: 9/15/1997
date9: 9/12/1997
date9: 9/11/1997

COASTSIDE NURSERY ***1360 L'AVENIDA AVE*** ***N 1/8 - 1/4 (0.200 mi.)*** ***S149*** ***536***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Id: 43-1821
Facility Status: Case Closed
Date Closed: 02/20/1997
Global Id: T0608501748
SCVWD ID: 06S2W15E01F
date9: 2/20/1997

ROTO-ROOTER SEWER SE ***1330 LAVENIDA ST*** ***NNE 1/8 - 1/4 (0.202 mi.)*** ***S151*** ***539***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 12/10/2018

Status: Completed - Case Closed
Facility Status: Case Closed
Date Closed: 02/20/1996
Global Id: T0608579977
SCVWD ID: 06S2W15E05F
date9: 2/20/1996

VTA NORTH YARD ***1235 LA AVENIDA STRE*** ***NNE 1/8 - 1/4 (0.218 mi.)*** ***U160*** ***552***
Database: LUST, Date of Government Version: 12/10/2018
Status: Open - Site Assessment
Global Id: T10000012109

RUDOLPH AND SLETTEN ***1250 L'AVENIDA*** ***NNE 1/8 - 1/4 (0.223 mi.)*** ***U169*** ***565***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Case Closed
Date Closed: 08/29/2008
SCVWD ID: 06S2W15E02F
date9: 4/10/1997

PEAR AVENUE AND LA A 1250 L'AVENIDA NNE 1/8 - 1/4 (0.223 mi.) U174 571
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Global Id: T0608501146

GOODSELL & VOCKE ***1401 N SHORELINE BLV*** ***N 1/4 - 1/2 (0.289 mi.)*** ***188*** ***600***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Status: Case Closed
Date Closed: 11/19/1997
Global Id: T0608502118
SCVWD ID: 06S2W15D05F
date9: 11/19/1997

KAISER SAND & GRAVEL ***1065 L'AVENIDA AVE*** ***ENE 1/4 - 1/2 (0.311 mi.)*** ***W190*** ***608***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Case Closed
date9: 4/3/2001

KAISER ***1065 L'AVENIDA*** ***ENE 1/4 - 1/2 (0.311 mi.)*** ***W192*** ***609***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Date Closed: 04/03/2001
Global Id: T0608590132
SCVWD ID: 06S2W15F01F

PEAR AVENUE AND LA A ***1285 PEAR AVE*** ***NNE 1/4 - 1/2 (0.330 mi.)*** ***X194*** ***617***
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Global Id: T0608502237

LOS ALTOS GARBAGE ***1285 PEAR*** ***NNE 1/4 - 1/2 (0.330 mi.)*** ***X195*** ***620***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Case Closed
Date Closed: 12/10/1999
SCVWD ID: 06S2W15D04F

date9: 12/10/1999

BEST-WAY TRANSPORTAT ***1280 PEAR AVE*** ***N 1/4 - 1/2 (0.377 mi.)*** ***X198*** ***626***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Case Closed
date9: 11/26/1996

STOMPER COMPANY ***1340 PEAR AVE*** ***N 1/4 - 1/2 (0.377 mi.)*** ***X199*** ***628***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Status: Case Closed
Date Closed: 10/26/1998
Global Id: T0608500846
SCVWD ID: 06S2W15D07F
date9: 10/26/1998

TNT BESTWAY TRANSPOR ***1280 PEAR AVE*** ***N 1/4 - 1/2 (0.377 mi.)*** ***X200*** ***631***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Date Closed: 11/26/1996
Global Id: T0608501447
SCVWD ID: 06S2W15D03F

CRITTENDEN INTERMEDI ***1701 ROCK ST*** ***WNW 1/4 - 1/2 (0.444 mi.)*** ***Z206*** ***664***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Date Closed: 01/25/2005
Global Id: T0608502058
SCVWD ID: 06S2W16G01F

WHISMAN SD CRITTENDE ***1701 ROCK ST*** ***WNW 1/4 - 1/2 (0.444 mi.)*** ***Z207*** ***668***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Post remedial action monitoring

BUFFALOW'S INC. ***1245 SPACE PARK WY*** ***NNE 1/4 - 1/2 (0.457 mi.)*** ***AD213*** ***675***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Status: Case Closed
Date Closed: 07/19/2000
Global Id: T0608500271
SCVWD ID: 06S2W15D01F
date9: 7/19/2000

IMCS ***1300 SPACE PARK WY*** ***N 1/4 - 1/2 (0.463 mi.)*** ***215*** ***678***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Status: Case Closed
Date Closed: 02/29/1996
Global Id: T0608500741
SCVWD ID: 06S2W15D02F
date9: 2/29/1996

EXECUTIVE SUMMARY

CA 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 CA CPS-SLIC list, as provided by EDR, has revealed that there are 22 CA CPS-SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FORMER TELEWAVE PROP	***1155 TERRA BELLA AVE***	***SSE 0 - 1/8 (0.016 mi.)***	***C16***	***168***
Database: CPS-SLIC, Date of Government Version: 12/10/2018 Facility Status: Open - Active Global Id: T10000011881				
SPECTRA-PHYSICS LASE	1250 WEST MIDDLEFIEL	SW 1/8 - 1/4 (0.143 mi.)	K91	341
Database: SLIC REG 2, Date of Government Version: 09/30/2004 Facility Id: 43S0120				
SPECTRA-PHYSICS LASE	1250 WEST MIDDLEFIEL	SW 1/8 - 1/4 (0.143 mi.)	K93	346
Database: CPS-SLIC, Date of Government Version: 12/10/2018 Facility Status: Open - Remediation Global Id: SL721201221				
CHEVRON 96377	***808 SHORELINE BLVD***	***SSW 1/8 - 1/4 (0.145 mi.)***	***N97***	***349***
Database: SLIC REG 2, Date of Government Version: 09/30/2004 Facility Id: SLT2O112118				
MOFFETT GATEWAY	750 MOFFETT BOULEVAR	ESE 1/4 - 1/2 (0.441 mi.)	AA204	650
Database: CPS-SLIC, Date of Government Version: 12/10/2018 Facility Status: Open - Site Assessment Global Id: T10000004491				

Lower Elevation	Address	Direction / Distance	Map ID	Page
CSI MOUNTAIN VIEW	***1066/1080 LINDA VIST***	***ENE 0 - 1/8 (0.009 mi.)***	***B12***	***158***
Database: CPS-SLIC, Date of Government Version: 12/10/2018 Facility Status: Completed - Case Closed Global Id: T10000007784				
SCVTA 1235 L'AVENIDA	1235/1241 L'AVENIDA	N 1/8 - 1/4 (0.137 mi.)	L68	249
Database: SLIC REG 2, Date of Government Version: 09/30/2004 Database: CPS-SLIC, Date of Government Version: 12/10/2018 Facility Status: Completed - Case Closed Facility Id: 43S0284 Global Id: SL0608505385				
SANTA CLARA COUNTY T	***1235 LAVENIDA AVE***	***N 1/8 - 1/4 (0.137 mi.)***	***L72***	***271***
Database: SLIC REG 2, Date of Government Version: 09/30/2004 Database: CPS-SLIC, Date of Government Version: 12/10/2018 Facility Status: Completed - Case Closed Facility Id: 43S0284 Global Id: T0608591630				
SEA LANE BIOTECHNOLO	***1400 TERRA BELLA AVE***	***WNW 1/8 - 1/4 (0.174 mi.)***	***O120***	***432***
Database: SLIC REG 2, Date of Government Version: 09/30/2004 Database: CPS-SLIC, Date of Government Version: 12/10/2018 Facility Status: Completed - Case Closed Facility Id: 43S0633 Global Id: T0608591662				
TDY INDUSTRIES, INC	***1300 TERRA BELLA AVE***	***WNW 1/8 - 1/4 (0.174 mi.)***	***O124***	***437***
Database: SLIC REG 2, Date of Government Version: 09/30/2004 Database: CPS-SLIC, Date of Government Version: 12/10/2018				

Facility Status: Open - Remediation
Facility Id: 43S0128
Global Id: SL721281224

RUCKER & KOLLS FACIL ***1305 TERRA BELLA AVE*** ***W 1/8 - 1/4 (0.182 mi.)*** ***O127*** ***463***
Database: SLIC REG 2, Date of Government Version: 09/30/2004
Database: CPS-SLIC, Date of Government Version: 12/10/2018
Facility Status: Open - Inactive
Facility Id: 43S0725
Global Id: T0608591675

GOOGLE - 1400 NORTH ***1400 NORTH SHORELINE*** ***NNW 1/4 - 1/2 (0.282 mi.)*** ***186*** ***599***
Database: CPS-SLIC, Date of Government Version: 12/10/2018
Facility Status: Open - Site Assessment
Global Id: T10000006049

KAISER SAND & GRAVEL ***1065 L'AVENIDA AVE*** ***ENE 1/4 - 1/2 (0.311 mi.)*** ***W190*** ***608***
Database: SLIC REG 2, Date of Government Version: 09/30/2004
Facility Id: SL18292713

PRECISION PHOTOGLASS ***1090 B LAVENIDA AVE*** ***NE 1/4 - 1/2 (0.313 mi.)*** ***193*** ***616***
Database: SLIC REG 2, Date of Government Version: 09/30/2004
Database: CPS-SLIC, Date of Government Version: 12/10/2018
Facility Status: Open - Inactive
Facility Id: 43S0718
Global Id: T0608591674

PEAR AVENUE AND LA A ***1255 PEAR AVENUE*** ***NNE 1/4 - 1/2 (0.344 mi.)*** ***196*** ***621***
Database: CPS-SLIC, Date of Government Version: 12/10/2018
Facility Status: Open - Site Assessment
Global Id: T10000004925

PEAR AVENUE DEVELOPM ***1260 PEAR AVENUE*** ***NNE 1/4 - 1/2 (0.358 mi.)*** ***X197*** ***625***
Database: CPS-SLIC, Date of Government Version: 12/10/2018
Facility Status: Open - Assessment & Interim Remedial Action
Global Id: T10000011662

ANTYPAS ***1599/1601 NORTH SHOR*** ***N 1/4 - 1/2 (0.398 mi.)*** ***Y201*** ***633***
Database: CPS-SLIC, Date of Government Version: 12/10/2018
Facility Status: Completed - Case Closed
Global Id: T10000009411

SHORELINE HOTEL ***1625 NORTH SHORELINE*** ***N 1/4 - 1/2 (0.434 mi.)*** ***Y202*** ***634***
Database: CPS-SLIC, Date of Government Version: 12/10/2018
Facility Status: Open - Remediation
Global Id: T10000007090

SYSTEM BIOSCIENCES L ***1616 N SHORELINE BLV*** ***N 1/4 - 1/2 (0.447 mi.)*** ***AC212*** ***673***
Database: CPS-SLIC, Date of Government Version: 12/10/2018
Facility Status: Completed - Case Closed
Global Id: T10000007799

TCI 1245 1675 SPACE PKWY NNE 1/4 - 1/2 (0.460 mi.) AD214 678
Database: SLIC REG 2, Date of Government Version: 09/30/2004
Facility Id: 43S0282

EMT LABS ***1547 PLYMOUTH ST*** ***NNW 1/4 - 1/2 (0.470 mi.)*** ***216*** ***680***
Database: CPS-SLIC, Date of Government Version: 12/10/2018
Facility Status: Open - Remediation
Global Id: T10000010142

ELEXSYS INTERNATIONA ***1625 PLYMOUTH STREET*** ***NW 1/4 - 1/2 (0.477 mi.)*** ***AE217*** ***681***
Database: CPS-SLIC, Date of Government Version: 12/10/2018

EXECUTIVE SUMMARY

Facility Status: Open - Remediation
Global Id: SL18253674

CA HIST LUST: A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

A review of the CA HIST LUST list, as provided by EDR, and dated 03/29/2005 has revealed that there are 20 CA HIST LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SHIPPEN PROPERTY SCVWD ID: 06S2W15M03	***1175 TERRA BELLA***	***S 0 - 1/8 (0.017 mi.)***	***D17***	***169***
TEXACO SCVWD ID: 06S2W15M02	***975 SHORELINE (STIER***	***SSW 0 - 1/8 (0.022 mi.)***	***D18***	***172***
SHELL SCVWD ID: 06S2W15N01	***807 SHORELINE***	***S 1/8 - 1/4 (0.141 mi.)***	***N85***	***327***
CHEVRON #9-6377 SCVWD ID: 06S2W16J01	***808 N SHORELINE BLVD***	***SSW 1/8 - 1/4 (0.145 mi.)***	***N98***	***362***
ARCO #6050 SCVWD ID: 06S2W16R01	***790 SHORELINE BLVD***	***SSW 1/8 - 1/4 (0.182 mi.)***	***Q135***	***512***
EL CAMINO PAVING SCVWD ID: 06S2W15L01	***924 SAN RAFAEL AVE***	***SE 1/8 - 1/4 (0.185 mi.)***	***P137***	***514***
UNOCAL #4769 SCVWD ID: 06S2W21A01	***510 SHORELINE BLVD***	***S 1/4 - 1/2 (0.447 mi.)***	***AB209***	***670***

Lower Elevation	Address	Direction / Distance	Map ID	Page
ROBB-JACK CORP. SCVWD ID: 06S2W15M01	***1080 LINDA VISTA AVE***	***NE 0 - 1/8 (0.025 mi.)***	***F24***	***184***
SCCTA - NORTH COACH SCVWD ID: 06S2W15E03	1235 L'AVENIDA AVE	N 1/8 - 1/4 (0.137 mi.)	L65	248
COASTSIDE NURSERY SCVWD ID: 06S2W15E01	1360 L'AVENIDA ST	N 1/8 - 1/4 (0.200 mi.)	S148	536
ROTO-ROOTER SEWER SE SCVWD ID: 06S2W15E05	***1330 LAVENIDA ST***	***NNE 1/8 - 1/4 (0.202 mi.)***	***S151***	***539***
RUDOLPH AND SLETTEN SCVWD ID: 06S2W15E02	***1250 L'AVENIDA***	***NNE 1/8 - 1/4 (0.223 mi.)***	***U169***	***565***
GOODSELL & VOCKE SCVWD ID: 06S2W15D05	***1401 N SHORELINE BLV***	***N 1/4 - 1/2 (0.289 mi.)***	***188***	***600***
KAISER SAND & GRAVEL SCVWD ID: 06S2W15F01	***1065 L'AVENIDA AVE***	***ENE 1/4 - 1/2 (0.311 mi.)***	***W190***	***608***
LOS ALTOS GARBAGE SCVWD ID: 06S2W15D04	***1285 PEAR***	***NNE 1/4 - 1/2 (0.330 mi.)***	***X195***	***620***
BEST-WAY TRANSPORTAT SCVWD ID: 06S2W15D03	***1280 PEAR AVE***	***N 1/4 - 1/2 (0.377 mi.)***	***X198***	***626***
STOMPER COMPANY	***1340 PEAR AVE***	***N 1/4 - 1/2 (0.377 mi.)***	***X199***	***628***

SCVWD ID: 06S2W15D07

WHISMAN SD CRITTENDE	***1701 ROCK ST***	***WNW 1/4 - 1/2 (0.444 mi.)***	***Z207***	***668***
SCVWD ID: 06S2W16G01				
BUFFALOW'S INC.	***1245 SPACE PARK WY***	***NNE 1/4 - 1/2 (0.457 mi.)***	***AD213***	***675***
SCVWD ID: 06S2W15D01				
IMCS	***1300 SPACE PARK WY***	***N 1/4 - 1/2 (0.463 mi.)***	***215***	***678***
SCVWD ID: 06S2W15D02				

State and tribal registered storage tank lists

CA UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the CA UST list, as provided by EDR, has revealed that there are 9 CA UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SHORELINE SHELL #59	807 N SHORELINE BLVD	S 1/8 - 1/4 (0.141 mi.)	N84	327
Database: UST, Date of Government Version: 12/10/2018 Facility Id: 1639 Facility Id: 724				
BILL BAILEY CHEVRON	808 SHORELINE BLVD.	SSW 1/8 - 1/4 (0.145 mi.)	N95	348
Database: UST, Date of Government Version: 12/10/2018 Facility Id: 725				
BILL BAILEY CHEVRON	808 N SHORELINE BLVD	SSW 1/8 - 1/4 (0.145 mi.)	N99	364
Database: UST, Date of Government Version: 12/10/2018 Facility Id: 1640				
CHEVRON STATION# 963	808 SHORELINE BLVD.	SSW 1/8 - 1/4 (0.145 mi.)	N101	377
Database: UST, Date of Government Version: 12/10/2018 Facility Id: 725				
ARCO SMOG PROS STORE	790 N SHORELINE BLVD	SSW 1/8 - 1/4 (0.182 mi.)	Q132	508
Database: UST, Date of Government Version: 12/10/2018 Facility Id: 1638				
MOUNTAIN VIEW ARCO	790 SHORELINE BLVD.	SSW 1/8 - 1/4 (0.182 mi.)	Q134	512
Database: UST, Date of Government Version: 12/10/2018 Facility Id: 1390				

Lower Elevation	Address	Direction / Distance	Map ID	Page
SCV TRANS. AUTHORITY	1241 LA AVENIDA ST	NNE 1/8 - 1/4 (0.216 mi.)	U158	547
Database: UST, Date of Government Version: 12/10/2018 Facility Id: 1625				
SCVTA-NORTH BUS DIVI	1235 L'AVENIDA AV	NNE 1/8 - 1/4 (0.223 mi.)	U167	563
Database: UST, Date of Government Version: 12/10/2018 Facility Id: 712				
RUDOLPH & SLETTEN IN	1250 LA AVENIDA ST	NNE 1/8 - 1/4 (0.223 mi.)	U173	570
Database: UST, Date of Government Version: 12/10/2018				

Facility Id: 1626

CA AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the CA AST list, as provided by EDR, has revealed that there are 5 CA AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EL CAMINO PAVING, IN Database: AST, Date of Government Version: 07/06/2016	924 SAN RAFAEL AVENU	SE 1/8 - 1/4 (0.185 mi.)	P138	521
EL CAMINO PAVING Database: AST, Date of Government Version: 07/06/2016	924 SAN RAFAEL AVENU	SE 1/8 - 1/4 (0.185 mi.)	P139	522

Lower Elevation	Address	Direction / Distance	Map ID	Page
SANTA CLARA VALLEY T Database: AST, Date of Government Version: 07/06/2016	1235 L'AVENIDA	N 1/8 - 1/4 (0.137 mi.)	L71	270
CLONTECH LABORATORIE Database: AST, Date of Government Version: 07/06/2016	1290 TERRA BELLA AVE	WNW 1/8 - 1/4 (0.161 mi.)	O110	421
SCVTA-NORTH BUS DIVI Database: AST, Date of Government Version: 07/06/2016	1235 L'AVENIDA AV	NNE 1/8 - 1/4 (0.223 mi.)	U166	562

State and tribal voluntary cleanup sites

CA VCP: Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

A review of the CA VCP list, as provided by EDR, and dated 01/28/2019 has revealed that there is 1 CA VCP site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FORMER VECTOR CONTRO Status: Certified Facility Id: 60000183	***750 MOFFETT BLVD***	***ESE 1/4 - 1/2 (0.441 mi.)***	***AA205***	***650***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

CA SWRCY: A listing of recycling facilities in California.

A review of the CA SWRCY list, as provided by EDR, and dated 12/10/2018 has revealed that there is 1 CA SWRCY site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FOOTHILL DISPOSAL CO Cert Id: RC2321	***935 TERRA BELLA AVE***	***E 1/8 - 1/4 (0.234 mi.)***	***T183***	***584***

Local Lists of Hazardous waste / Contaminated Sites

CA 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 CA HIST Cal-Sites list, as provided by EDR, and dated 08/08/2005 has revealed that there are 6 CA HIST Cal-Sites sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CTS PRINTEX, INC.	***PLYMOUTH & COLONY ST***	***NW 1/2 - 1 (0.707 mi.)***	***0***	***134***
SPECTRA PHYSICS, INC	***1250 W MIDDLEFIELD R***	***SW 1/8 - 1/4 (0.143 mi.)***	***K92***	***342***
LGM MANUFACTURING	***723 STIERLIN ROAD***	***S 1/4 - 1/2 (0.292 mi.)***	***189***	***603***
JASCO CHEMICAL CO	1710 VILLA STREET	SW 1/2 - 1 (0.955 mi.)	AH230	731

Lower Elevation	Address	Direction / Distance	Map ID	Page
TDY INDUSTRIES, INC	***1300 TERRA BELLA AVE***	***WNW 1/8 - 1/4 (0.174 mi.)***	***O124***	***437***
MT. VIEW JONES HALL	***1776 OLD MIDDLE FIEL***	***NW 1/2 - 1 (0.565 mi.)***	***219***	***689***

CA 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 CA CERS HAZ WASTE list, as provided by EDR, and dated 10/22/2018 has revealed that there are 17 CA CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AMARANTH MEDICAL	***1145 TERRA BELLA AVE***	***SE 0 - 1/8 (0.016 mi.)***	***C14***	***160***
IRIDEX CORPORATION	***1212 TERRA BELLA AVE***	***WSW 0 - 1/8 (0.069 mi.)***	***H43***	***202***
PLANET LABS	***1060 TERRA BELLA AVE***	***ESE 0 - 1/8 (0.080 mi.)***	***I46***	***210***
GOOGLE LLC - 946	***946 LINDA VISTA AVE***	***SSE 0 - 1/8 (0.097 mi.)***	***G54***	***221***
MARK MERRILL	***941 LINDA VISTA AVEN***	***SE 0 - 1/8 (0.102 mi.)***	***G59***	***228***
FUJIFILM WAKO DIAGNO	***1025 TERRA BELLA AVE***	***ESE 1/8 - 1/4 (0.139 mi.)***	***M81***	***314***
CHEVRON 96377	***808 SHORELINE BLVD***	***SSW 1/8 - 1/4 (0.145 mi.)***	***N97***	***349***
SHORELINE SHELL #59	***807 N SHORELINE BLVD***	***SSW 1/8 - 1/4 (0.146 mi.)***	***N102***	***377***
HADAD PETORLEUM INC	***790 N SHORELINE BLVD***	***SSW 1/8 - 1/4 (0.182 mi.)***	***Q128***	***464***
MOUNTAIN VIEW ARCO	***790 SHORELINE BLVD.***	***SSW 1/8 - 1/4 (0.182 mi.)***	***Q131***	***481***
WATERPROOFING ASSOCI	***975 TERRA BELLA AVEN***	***ESE 1/8 - 1/4 (0.197 mi.)***	***T144***	***526***
MERCEDES WERKSTATT	***939 TERRA BELLA AVEN***	***ESE 1/8 - 1/4 (0.224 mi.)***	***T176***	***577***
RECOLOGY MOUNTAIN VI	***935 TERRA BELLA AVEN***	***E 1/8 - 1/4 (0.234 mi.)***	***T184***	***595***

Lower Elevation	Address	Direction / Distance	Map ID	Page
GOOGLE LLC - TB55	***1255 TERRA BELLA AV***	***W 0 - 1/8 (0.117 mi.)***	***J62***	***236***
TELEDYNE MICROWAVE	***1274 TERRA BELLA AVE***	***W 1/8 - 1/4 (0.137 mi.)***	***J76***	***293***
TAKARA BIO USA, INC	***1290 TERRA BELLA AVE***	***WNW 1/8 - 1/4 (0.161 mi.)***	***O103***	***401***
AT&T MOBILITY - MOFF	***1235 LA AVENIDA ST***	***NNE 1/8 - 1/4 (0.218 mi.)***	***U159***	***547***

Local Lists of Registered Storage Tanks

CA 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 CA SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 10 CA SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EXXON Comp Number: 5783	***975 N SHORELINE BLVD***	***SSW 0 - 1/8 (0.022 mi.)***	***D20***	***179***
ADVANCED PHOTO CHEMI Comp Number: 8417	***1090 TERRA BELLA***	***ESE 0 - 1/8 (0.036 mi.)***	***B28***	***191***
SHELL Status: A Tank Status: A Comp Number: 2726	***807 N SHORELINE BLVD***	***S 1/8 - 1/4 (0.141 mi.)***	***N87***	***336***
CHEVRON Status: A Tank Status: A Comp Number: 62878	808 N SHORELINE BLVD	SSW 1/8 - 1/4 (0.145 mi.)	N96	348
CHEVRON #9-6377 Comp Number: 62878	***808 N SHORELINE BLVD***	***SSW 1/8 - 1/4 (0.145 mi.)***	***N98***	***362***
HADAD PETORLEUM INC Status: A Tank Status: A Comp Number: 27075	***790 N SHORELINE BLVD***	***SSW 1/8 - 1/4 (0.182 mi.)***	***Q128***	***464***
WATERPROOFING ASSOCI Comp Number: 27669	***975 TERRA BELLA AV***	***ESE 1/8 - 1/4 (0.197 mi.)***	***T145***	***533***

Lower Elevation	Address	Direction / Distance	Map ID	Page
COMM. BLDG Comp Number: 54180	***1080 LINDA VISTA AVE***	***NE 0 - 1/8 (0.025 mi.)***	***F23***	***184***
SANTA CLARA VALLEY T Comp Number: 156	***1235 L'AVENIDA***	***N 1/8 - 1/4 (0.137 mi.)***	***L70***	***258***
RUDOLPH AND SLETTEN Status: A Tank Status: A Comp Number: 65613	***1250 L'AVENIDA***	***NNE 1/8 - 1/4 (0.223 mi.)***	***U169***	***565***

CA HIST UST: Historical UST Registered Database.

A review of the CA HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 21 CA HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TEXACO	975 STIERLIN ROAD AN	SSW 0 - 1/8 (0.023 mi.)	E21	182

Facility Id: 00000005783				
ADVANCED PHOTO CHEMI Facility Id: 00000008417	1090 TERRA BELLA AVE	ESE 0 - 1/8 (0.036 mi.)	B29	196
HARRIS BROADCAST MIC Facility Id: 00000048785	960 LINDA VISTA	SSE 0 - 1/8 (0.097 mi.)	G55	226
JERAJR PANOSIAN Facility Id: 00000002726	807 STIERLIN RD	SSW 1/8 - 1/4 (0.141 mi.)	N89	339
96377 Facility Id: 00000062878	808 STIERLIN RD	SSW 1/8 - 1/4 (0.145 mi.)	N94	347
JAMES M HALSNE Facility Id: 00000027075	790 STIERLIN RD	SSW 1/8 - 1/4 (0.176 mi.)	N125	461
B&B LANDSCAPE INC Facility Id: 00000027669	975 TERRA BELLA AVE	ESE 1/8 - 1/4 (0.197 mi.)	T143	525
WATERPROOFING ASSOCI	***975 TERRA BELLA AV***	***ESE 1/8 - 1/4 (0.197 mi.)***	***T145***	***533***

Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
COMM BLDG Facility Id: 00000054180	1080 LINDA VISTA AVE	NE 0 - 1/8 (0.025 mi.)	F22	183
NORTH DIVISION	***1235 L AVENIDA***	***N 1/8 - 1/4 (0.137 mi.)***	***L69***	***250***
TELEDYNE ELECTRONIC Facility Id: 00000004653	***1274 TERRA BELLA AVE***	***W 1/8 - 1/4 (0.137 mi.)***	***J73***	***272***
TELEDYNE MICROWAVE Facility Id: 00000045616	1290 TERRA BELLA AVE	WNW 1/8 - 1/4 (0.161 mi.)	O105	414
TELEDYNE MICROWAVE	***1290 TERRA***	***WNW 1/8 - 1/4 (0.161 mi.)***	***O108***	***416***
WL LARSEN INC	1345 L AVENIDA AVE	NNE 1/8 - 1/4 (0.190 mi.)	S141	524
W.L. LARSEN INC. Facility Id: 00000064295	1345 LAVENIDA ST	NNE 1/8 - 1/4 (0.190 mi.)	S142	524
LEO OTT LANDSCAPE IN Facility Id: 00000045754	1315 LAVENIDA ST	NNE 1/8 - 1/4 (0.198 mi.)	S147	535
RUDOLPH AND SLETTEN	1260 L AVENIDA	NNE 1/8 - 1/4 (0.220 mi.)	U162	555
RUDOLPH AND SLETTEN Facility Id: 00000065613	1260 LAVENIDA ST	NNE 1/8 - 1/4 (0.220 mi.)	U163	556
NORTH DIVISION Facility Id: 00000030168	1235 LAVENIDA ST	NNE 1/8 - 1/4 (0.223 mi.)	U168	563
RUDOLPH AND SLETTEN	1250 L AVENIDA	NNE 1/8 - 1/4 (0.223 mi.)	U170	568
RUDOLPH AND SLETTEN Facility Id: 00000065637	1250 LAVENIDA ST	NNE 1/8 - 1/4 (0.223 mi.)	U171	569

CA CERS TANKS: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

A review of the CA CERS TANKS list, as provided by EDR, and dated 10/22/2018 has revealed that there are 3 CA CERS TANKS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
CHEVRON 96377	***808 SHORELINE BLVD***	***SSW 1/8 - 1/4 (0.145 mi.)***	***N97***	***349***
SHORELINE SHELL #59	***807 N SHORELINE BLVD***	***SSW 1/8 - 1/4 (0.146 mi.)***	***N102***	***377***
MOUNTAIN VIEW ARCO	***790 SHORELINE BLVD.***	***SSW 1/8 - 1/4 (0.182 mi.)***	***Q131***	***481***

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 8 CA FID UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EXXON Facility Id: 43002537 Status: I	***975 N SHORELINE BLVD***	***SSW 0 - 1/8 (0.022 mi.)***	***D20***	***179***
ADVANCED PHOTO CHEMI Facility Id: 43011915 Status: I	***1090 TERRA BELLA***	***ESE 0 - 1/8 (0.036 mi.)***	***B28***	***191***
SHELL Facility Id: 43003746 Status: A	***807 N SHORELINE BLVD***	***S 1/8 - 1/4 (0.141 mi.)***	***N87***	***336***
CHEVRON #9-6377 Facility Id: 43002709 Status: A	***808 N SHORELINE BLVD***	***SSW 1/8 - 1/4 (0.145 mi.)***	***N98***	***362***
HADAD PETORLEUM INC Facility Id: 43001995 Status: A	***790 N SHORELINE BLVD***	***SSW 1/8 - 1/4 (0.182 mi.)***	***Q128***	***464***
WATERPROOFING ASSOCI Facility Id: 43003287 Status: I	***975 TERRA BELLA AV***	***ESE 1/8 - 1/4 (0.197 mi.)***	***T145***	***533***

Lower Elevation	Address	Direction / Distance	Map ID	Page
COMM. BLDG Facility Id: 43001162 Status: I	***1080 LINDA VISTA AVE***	***NE 0 - 1/8 (0.025 mi.)***	***F23***	***184***
RUDOLPH AND SLETTEN Facility Id: 43012186 Status: A	***1250 L'AVENIDA***	***NNE 1/8 - 1/4 (0.223 mi.)***	***U169***	***565***

Local Land Records

CA DEED: The use of recorded land use restrictions is one of the methods the DTSC uses to protect the public from unsafe exposures to hazardous substances and wastes .

A review of the CA DEED list, as provided by EDR, and dated 12/03/2018 has revealed that there are 4 CA DEED sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PALO ALTO BARKLAND B Status: OPEN - REMEDIATION Envirostor ID: SL721201221	***1250 WEST MIDDLEFIEL***	***SW 1/8 - 1/4 (0.143 mi.)***	***K90***	***340***
ARCO SERVICE STATION Status: COMPLETED - CASE CLOSED	***790 NO. SHORELINE***	***SSW 1/8 - 1/4 (0.182 mi.)***	***Q129***	***475***

Envirostor ID: T0608500185

Lower Elevation	Address	Direction / Distance	Map ID	Page
TDY INDUSTRIES, INC Status: OPEN - REMEDIATION Envirostor ID: SL721281224	***1300 TERRA BELLA AVE***	***WNW 1/8 - 1/4 (0.174 mi.)***	***O124***	***437***
MONTWOOD Status: OPEN - REMEDIATION Envirostor ID: SL18253674	***1625 PLYMOUTH ST***	***NW 1/4 - 1/2 (0.477 mi.)***	***AE218***	***684***

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/01/2018 has revealed that there are 7 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EMBARCADERO REALTY S EPA ID:: CAD009111444	***1300 TERRA BELLA AVE***	***W 0 - 1/8 (0.008 mi.)***	***0***	***73***
ABBOTT CRITICAL CARE EPA ID:: CAD981977903	***1212 TERRA BELLA AVE***	***WSW 0 - 1/8 (0.069 mi.)***	***H44***	***208***
SPECTRA PHYSICS OPTI EPA ID:: CAD982445504	1330/1340 WEST MIDDL	WSW 1/8 - 1/4 (0.185 mi.)	R140	522
SPACE SYSTEMS/LORAL, EPA ID:: CAR000188763	***1340 W MIDDLEFIELD R***	***WSW 1/8 - 1/4 (0.223 mi.)***	***R164***	***557***

Lower Elevation	Address	Direction / Distance	Map ID	Page
DIGITAL EQUIPMENT CO EPA ID:: CAD010935302	***1400 TERRA BELLA ST***	***WNW 1/8 - 1/4 (0.174 mi.)***	***O116***	***426***
SPECTRA-PHYSICS INC EPA ID:: CAT080012727	1300 TERRA BELLA AVE	WNW 1/8 - 1/4 (0.174 mi.)	O117	428
SURE FLOW INC DBA RO EPA ID:: CAD054808340	***1330 L'AVENIDA***	***NNE 1/8 - 1/4 (0.202 mi.)***	***S150***	***538***

DOD: 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.

A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 DOD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MOFFETT FIELD NAVAL		E 1/2 - 1 (0.649 mi.)	0	26

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 12/12/2018 has revealed that there are 6 ROD sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MOFFETT NAVAL AIR ST EPA ID:: CA2170090078	***MOFFETT FIELD NAS***	***E 1/2 - 1 (0.587 mi.)***	***0***	***27***
INTEL CORPORATION EPA ID:: CAD061620217	***365 MIDDLEFIELD RD***	***ESE 1/2 - 1 (0.743 mi.)***	***0***	***54***
EMBARCADERO REALTY S EPA ID:: CAD009111444	***1300 TERRA BELLA AVE***	***W 0 - 1/8 (0.008 mi.)***	***0***	***73***
SPECTRA-PHYSICS, INC EPA ID:: CAD009138488	***1250 W MIDDLEFIELD R***	***SW 0 - 1/8 (0.027 mi.)***	***0***	***105***
JASCO CHEMICAL CORP. EPA ID:: CAD009103318	***1710 VILLA ST***	***SW 1/2 - 1 (0.678 mi.)***	***0***	***120***
CTS PRINTEX, INC. EPA ID:: CAD009212838	***PLYMOUTH & COLONY ST***	***NW 1/2 - 1 (0.707 mi.)***	***0***	***134***

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 09/30/2018 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
CTS PRINTEX, INC.	***PLYMOUTH & COLONY ST***	***NW 1/2 - 1 (0.707 mi.)***	***0***	***134***

CA BOND EXP. PLAN: Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

A review of the CA BOND EXP. PLAN list, as provided by EDR, and dated 01/01/1989 has revealed that there are 3 CA BOND EXP. PLAN sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
JASCO CHEMICAL CORPO	***1710 VILLA STREET***	***SW 1/2 - 1 (0.955 mi.)***	***AH231***	***732***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
TDY INDUSTRIES, INC CTS PRINTEX CORPORAT	***1300 TERRA BELLA AVE*** 1950 COLONY STREET	***WNW 1/8 - 1/4 (0.174 mi.)*** NW 1/2 - 1 (0.708 mi.)	***O124*** 223	***437*** 707

CA 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 CA Cortese list, as provided by EDR, and dated 12/20/2018 has revealed that there are 2 CA Cortese sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SCR-SPECTRA-1250 W M	***1250 MIDDLEFIELD***	***SW 1/8 - 1/4 (0.134 mi.)***	***K64***	***241***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
TDY INDUSTRIES, INC	***1300 TERRA BELLA AVE***	***WNW 1/8 - 1/4 (0.174 mi.)***	***O124***	***437***

CA 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 CA CUPA Listings list, as provided by EDR, has revealed that there are 65 CA CUPA Listings sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ADVANCED MARINE SERV	1049 LINDA VISTA AV	E 0 - 1/8 (0.009 mi.)	B10	156
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
AMARANTH MEDICAL	***1145 TERRA BELLA AV***	***SE 0 - 1/8 (0.016 mi.)***	***C15***	***166***
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
FORMER TELEWAVE PROP	***1155 TERRA BELLA AVE***	***SSE 0 - 1/8 (0.016 mi.)***	***C16***	***168***
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
INTRA PACE INC	967 N SHORELINE BL	S 0 - 1/8 (0.049 mi.)	D30	198
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
RITA MEDICAL SYSTEMS	967 N SHORELINE BL	S 0 - 1/8 (0.049 mi.)	D31	198
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
KNIGHTSCOPE INC	1070 TERRA BELLA AV	ESE 0 - 1/8 (0.055 mi.)	B32	199
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
EDGE INNOVATIONS	1070 TERRA BELLA AV	ESE 0 - 1/8 (0.055 mi.)	B33	199
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
AR'S AUTOMOTIVE	1080 TERRA BELLA	ESE 0 - 1/8 (0.055 mi.)	B34	199
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
ABBOTT LAB HOSPITAL	1215 TERRA BELLA AV	SW 0 - 1/8 (0.056 mi.)	E35	200
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
FINE PITCH TECHNOLOG	980 LINDA VISTA AV	SE 0 - 1/8 (0.057 mi.)	C36	200
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
APPRION	980 LINDA VISTA AV	SE 0 - 1/8 (0.057 mi.)	C37	200
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
CGI PAINTING-CONTRAC	973 LINDA VISTA AV D	SE 0 - 1/8 (0.068 mi.)	G40	201
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
IRIDEX CORPORATION	1212 TERRA BELLA AV	WSW 0 - 1/8 (0.069 mi.)	H41	201
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
ABBOTT CRITICAL CARE	1212 TERRA BELLA AV	WSW 0 - 1/8 (0.069 mi.)	H42	202
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ABBOTT LAB HOSPITAL	1212 TERRA BELLA AV	WSW 0 - 1/8 (0.069 mi.)	H45	210
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
SKYBOX IMAGING INC	***1061 TERRA BELLA AVE***	***ESE 0 - 1/8 (0.083 mi.)***	***I47***	***216***
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
HACKETT PIPELINE INC	963 LINDA VISTA AV	SE 0 - 1/8 (0.088 mi.)	G48	218
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
INTRABIOTICS PHARMAC	1245 TERRA BELLA AV	WSW 0 - 1/8 (0.095 mi.)	H49	218
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
GOOGLE, INC	1245 TERRA BELLA AV	WSW 0 - 1/8 (0.095 mi.)	H50	218
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
ABBOTT LAB HOSPITAL	960 LINDA VISTA	SSE 0 - 1/8 (0.097 mi.)	G52	220
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
ABLE ELECTRONICS COR	950-960 LINDA VISTA	SSE 0 - 1/8 (0.097 mi.)	G53	221
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
MARK MERRILL	941 LINDA VISTA AV B	SE 0 - 1/8 (0.102 mi.)	G56	227
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
GUARANTEED EXPRESS	941 LINDA VISTA AV	SE 0 - 1/8 (0.102 mi.)	G57	227
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
VENEZIA MFG CO INC	941 LINDA VISTA AV	SE 0 - 1/8 (0.102 mi.)	G58	227
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
GOOGLE, INC. - SKYBO	1049 TERRA BELLA AV	ESE 0 - 1/8 (0.106 mi.)	I60	235
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
SAVIANO COMPANY, INC	1020 TERRA BELLA AV	ESE 0 - 1/8 (0.110 mi.)	I61	236
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
WEMCO LANDSCAPES	915 LINDA VISTA #B	SE 0 - 1/8 (0.120 mi.)	63	240
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
MACROMOLECULAR LLC	1025 TERRA BELLA AV	ESE 1/8 - 1/4 (0.139 mi.)	M78	310
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
BIOMETRIC IMAGING IN	***1025 TERRA BELLA AV***	***ESE 1/8 - 1/4 (0.139 mi.)***	***M80***	***312***
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
BD BIOSCIENCES CLONT	1025 TERRA BELLA AV	ESE 1/8 - 1/4 (0.139 mi.)	M82	322
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
SHELL SERVICE STATIO	***807 N SHORELINE***	***S 1/8 - 1/4 (0.141 mi.)***	***N86***	***332***
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
CHEVRON STATION NO 9	***808 N SHORELINE BLVD***	***SSW 1/8 - 1/4 (0.145 mi.)***	***N100***	***364***
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
GIBSON STUDIO LLC	954 SAN RAFAEL AV	ESE 1/8 - 1/4 (0.168 mi.)	P113	425
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
J & J GRFX	985 TERRA BELLA AV D	ESE 1/8 - 1/4 (0.177 mi.)	M126	462
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
HADAD PETORLEUM INC	***790 N SHORELINE BLVD***	***SSW 1/8 - 1/4 (0.182 mi.)***	***Q128***	***464***
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
ARCO #6050	790 N SHORELINE BL	SSW 1/8 - 1/4 (0.182 mi.)	Q130	480
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
EL CAMINO PAVING, IN	***924 SAN RAFAEL AV***	***SE 1/8 - 1/4 (0.185 mi.)***	***P136***	***513***
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WATERPROOFING ASSOCI	***975 TERRA BELLA AV***	***ESE 1/8 - 1/4 (0.197 mi.)***	***T145***	***533***
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
NIA CREATIVE	970 TERRA BELLA AV 9	E 1/8 - 1/4 (0.198 mi.)	T146	535
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
FEDERAL COLLISION CE	2025B/2 OLD MIDDLEFI	SSE 1/8 - 1/4 (0.206 mi.)	153	542
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
JEDA PUBLICATIONS	909 SAN RAFAEL AV A	SE 1/8 - 1/4 (0.216 mi.)	V155	543
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
PARAMOUNT PRINTING	909 SAN RAFAEL AV B	SE 1/8 - 1/4 (0.216 mi.)	V156	543
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
SPACE SYSTEMS/LORAL	1340 W MIDDLEFIELD R	WSW 1/8 - 1/4 (0.223 mi.)	R165	562
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
CALIFORNIA CUSTOM CY	939 TERRA BELLA AV A	ESE 1/8 - 1/4 (0.224 mi.)	T175	576
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
CALVAC PAVING & SEAL	939 TERRA BELLA	ESE 1/8 - 1/4 (0.224 mi.)	T177	582
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
COMMERCIAL PRINTING	939 TERRA BELLA AV A	ESE 1/8 - 1/4 (0.224 mi.)	T178	582
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
AUTO MOTOR UND SPORT	939 TERRA BELLA AV	ESE 1/8 - 1/4 (0.224 mi.)	T179	582
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
MERCEDES WERKSTATT	939 TERRA BELLA AV B	ESE 1/8 - 1/4 (0.224 mi.)	T180	583
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
PEDRO'S AUTO CLINIC	939 TERRA BELLA AV B	ESE 1/8 - 1/4 (0.224 mi.)	T181	583
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
FOOTHILL DISPOSAL CO	***935 TERRA BELLA AVE***	***E 1/8 - 1/4 (0.234 mi.)***	***T183***	***584***
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
SCC HHW SITE-FOOTHIL	935 TERRA BELLA AV	E 1/8 - 1/4 (0.234 mi.)	T185	599
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				

Lower Elevation	Address	Direction / Distance	Map ID	Page
GOOGLE LLC - TB55	***1255 TERRA BELLA AV***	***W 0 - 1/8 (0.117 mi.)***	***J62***	***236***
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
TELEDYNE MICROWAVE	***1274 TERRA BELLA AV***	***W 1/8 - 1/4 (0.137 mi.)***	***J77***	***308***
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
BD BIOSCIENCE-CLONTE	1290 TERRA BELLA AV	WNW 1/8 - 1/4 (0.161 mi.)	O106	415
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
TELEDYNE MICROWAVE	1290 TERRA BELLA AV	WNW 1/8 - 1/4 (0.161 mi.)	O111	421
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
SPECTRA-PHYSICS LASE	1344 TERRA BELLA AV	WNW 1/8 - 1/4 (0.174 mi.)	O114	425
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
SPECTRA PHYSICS LASE	1344 TERRA BELLA AV	WNW 1/8 - 1/4 (0.174 mi.)	O115	426
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
IMAGE ARCHITECTS	1400 TERRA BELLA AV	WNW 1/8 - 1/4 (0.174 mi.)	O119	431
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
SEA LANE BIOTECHNOLO	***1400 TERRA BELLA AVE***	***WNW 1/8 - 1/4 (0.174 mi.)***	***O120***	***432***
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				

Lower Elevation	Address	Direction / Distance	Map ID	Page
SEA LANE BIOTECHNOLO	1400 TERRA BELLA AV	WNW 1/8 - 1/4 (0.174 mi.)	O121	434
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
MICROCHIP TECHNOLOGY	1300 TERRA BELLA AV	WNW 1/8 - 1/4 (0.174 mi.)	O122	435
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
JEVELOT	1280 L'AVENIDA	NNE 1/8 - 1/4 (0.214 mi.)	U154	542
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
SCVTA-NORTH BUS DIVI	***1235 LA AVENIDA ST***	***NNE 1/8 - 1/4 (0.218 mi.)***	***U161***	***554***
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
RUDOLPH & SLETTEN IN	1250 LAVENIDA AV	NNE 1/8 - 1/4 (0.223 mi.)	U172	570
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				
SPECTRA-PHYSICS INC	1330 TERRA BELLA AV	WNW 1/8 - 1/4 (0.234 mi.)	182	583
Database: CUPA SANTA CLARA, Date of Government Version: 02/13/2019				

CA 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 CA HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 27 CA HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SHIPPEN PROPERTY	***1175 TERRA BELLA***	***S 0 - 1/8 (0.017 mi.)***	***D17***	***169***
Reg Id: 43-2319				
TEXACO (CVX #21-1179	***975 SHORELINE BOULEV***	***SSW 0 - 1/8 (0.022 mi.)***	***D19***	***173***
Reg Id: 43-1460				
EXXON	925 SHORELINE	SSW 0 - 1/8 (0.066 mi.)	E38	201
Reg Id: 43-0739				
SCR-SPECTRA-1250 W M	***1250 MIDDLEFIELD***	***SW 1/8 - 1/4 (0.134 mi.)***	***K64***	***241***
Reg Id: 2 438169NO1				
SHELL	***807 SHORELINE***	***S 1/8 - 1/4 (0.141 mi.)***	***N85***	***327***
Reg Id: 43-1331				
CHEVRON 96377	***808 SHORELINE BLVD***	***SSW 1/8 - 1/4 (0.145 mi.)***	***N97***	***349***
Reg Id: 43-1822				
ARCO #6050	***790 SHORELINE BLVD***	***SSW 1/8 - 1/4 (0.182 mi.)***	***Q135***	***512***
Reg Id: 43-0117				
EL CAMINO PAVING	***924 SAN RAFAEL AVE***	***SE 1/8 - 1/4 (0.185 mi.)***	***P137***	***514***
Reg Id: 43-0502				
SIMMONS, RICHARD L &	760 SAN PABLO	ESE 1/4 - 1/2 (0.284 mi.)	187	600
Reg Id: 6A189103N80				
UNOCAL #4769	***510 SHORELINE BLVD***	***S 1/4 - 1/2 (0.447 mi.)***	***AB210***	***671***
Reg Id: 43-1598				

Lower Elevation	Address	Direction / Distance	Map ID	Page
ROBB-JACK CORP.	***1080 LINDA VISTA AVE***	***NE 0 - 1/8 (0.025 mi.)***	***F24***	***184***
Reg Id: 43-1120				
SANTA CLARA COUNT TD	1235 L AVENIDA	N 1/8 - 1/4 (0.137 mi.)	L66	248

Reg Id: 43-2185 Reg Id: 43-2183 Reg Id: 43-2184				
RUDOLPH AND SLETTEN Reg Id: 43-1156	1235 L AVENIDA	N 1/8 - 1/4 (0.137 mi.)	L67	249
NORTH DIVISION Reg Id: 43-1243	***1235 L AVENIDA***	***N 1/8 - 1/4 (0.137 mi.)***	***L69***	***250***
TDY INDUSTRIES, INC Reg Id: 2 438122N02	***1300 TERRA BELLA AVE***	***WNW 1/8 - 1/4 (0.174 mi.)***	***O124***	***437***
COASTSIDE NURSERY Reg Id: 43-1821	***1360 L'AVENIDA AVE***	***N 1/8 - 1/4 (0.200 mi.)***	***S149***	***536***
ROTO ROOTER SEWER SE Reg Id: 43-1133	1330 L AVENIDA	NNE 1/8 - 1/4 (0.202 mi.)	S152	542
KAISER SAND & GRAVEL Reg Id: 43-0772	***1065 L'AVENIDA AVE***	***ENE 1/4 - 1/2 (0.311 mi.)***	***W190***	***608***
RAISCH COMPANY Reg Id: 43-1095	1105 L AVENIDA	ENE 1/4 - 1/2 (0.311 mi.)	W191	609
LOS ALTOS GARBAGE Reg Id: 43-0832	***1285 PEAR***	***NNE 1/4 - 1/2 (0.330 mi.)***	***X195***	***620***
STOMPER COMPANY Reg Id: 43-2303	***1340 PEAR AVE***	***N 1/4 - 1/2 (0.377 mi.)***	***X199***	***628***
TNT BESTWAY TRANSPOR Reg Id: 43-1477	***1280 PEAR AVE***	***N 1/4 - 1/2 (0.377 mi.)***	***X200***	***631***
MOUNTAIN VIEW WHISMA Reg Id: 43-0422	***1695 ROCK ST***	***WNW 1/4 - 1/2 (0.439 mi.)***	***Z203***	***642***
CRITTENDEN INTERMEDI Reg Id: 43-2243	***1701 ROCK ST***	***WNW 1/4 - 1/2 (0.444 mi.)***	***Z206***	***664***
PLYMOUTH GROUP Reg Id: 43-1758	1616 SHORELINE	N 1/4 - 1/2 (0.447 mi.)	AC211	673
BUFFALOW'S INC. Reg Id: 43-0211	***1245 SPACE PARK WY***	***NNE 1/4 - 1/2 (0.457 mi.)***	***AD213***	***675***
IMCS Reg Id: 43-0714	***1300 SPACE PARK WY***	***N 1/4 - 1/2 (0.463 mi.)***	***215***	***678***

CA HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the CA HWP list, as provided by EDR, and dated 02/19/2019 has revealed that there are 2 CA HWP sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SPECTRA PHYSICS, INC EPA Id: CAD009138488 Cleanup Status: CLOSED	***1250 W MIDDLEFIELD R***	***SW 1/8 - 1/4 (0.143 mi.)***	***K92***	***342***

Lower Elevation	Address	Direction / Distance	Map ID	Page
1300 TERRA BELLA TEL	***1300 TERRA BELLA AVE***	***WNW 1/8 - 1/4 (0.174 mi.)***	***O123***	***435***

EPA Id: CAD009111444
Cleanup Status: CLOSED

NY MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the NY MANIFEST list, as provided by EDR, and dated 01/01/2019 has revealed that there is 1 NY MANIFEST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SPECTRA-PHYSICS, INC EPA ID: CAD009138488	***1250 W MIDDLEFIELD R***	***SW 0 - 1/8 (0.027 mi.)***	***0***	***105***

CA 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 CA Notify 65 list, as provided by EDR, and dated 09/19/2018 has revealed that there are 2 CA Notify 65 sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ARCO SERVICE STATION	***790 NO. SHORELINE***	***SSW 1/8 - 1/4 (0.182 mi.)***	***Q129***	***475***

Lower Elevation	Address	Direction / Distance	Map ID	Page
CS SERVICES	1978 PLYMOUTH STREET	NW 1/2 - 1 (0.876 mi.)	227	722

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 is 1 EDR Hist Auto site within approximately 0.125 miles of the target property.

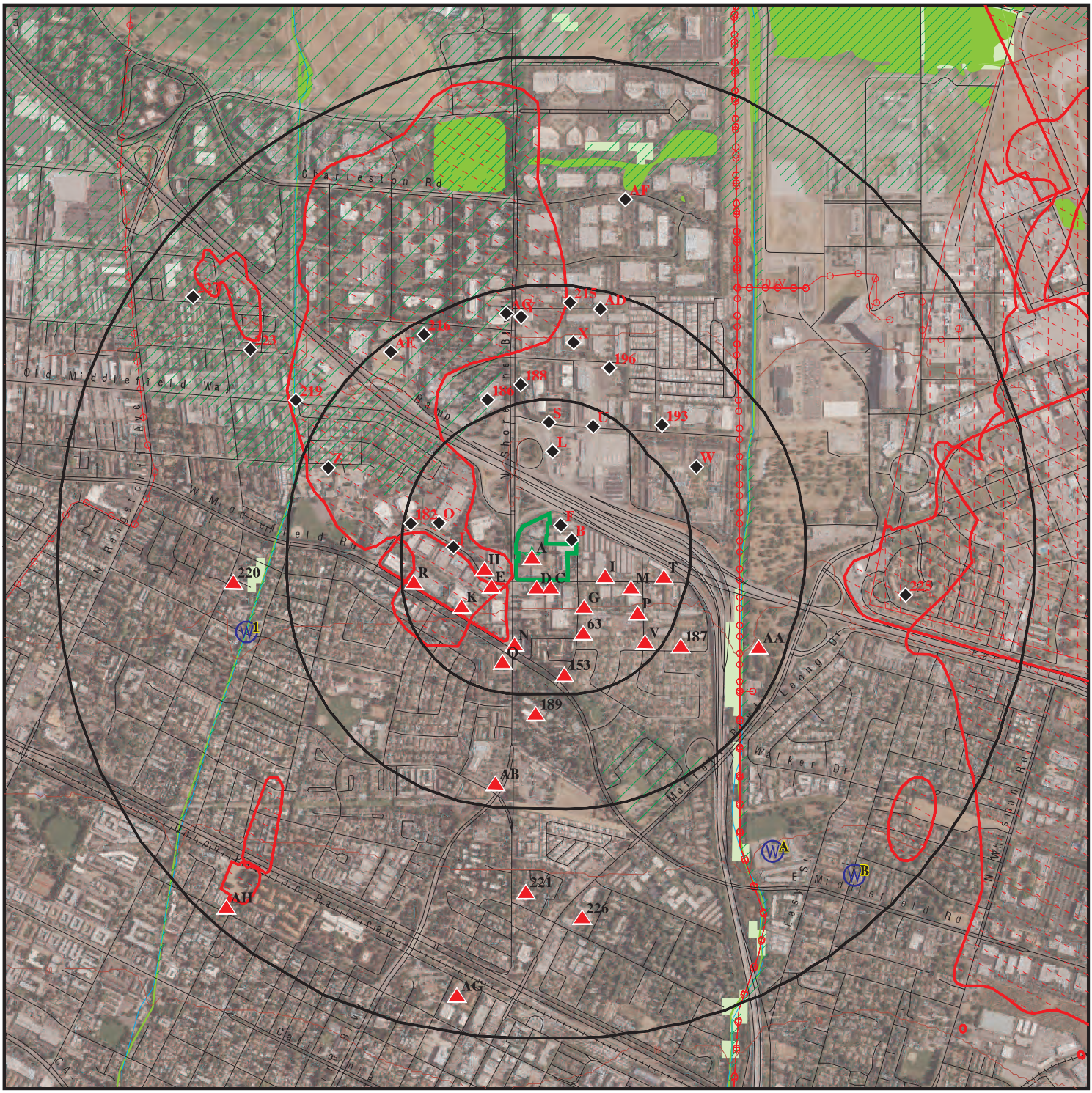
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TRANS TECH 2000	973 LINDA VISTA AVE	SE 0 - 1/8 (0.068 mi.)	G39	201

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 7 records.

Site Name	Database(s)
GOOGLE LLC - 934	CA CERS HAZ WASTE, CA CERS
MOFFETT FIELD NAS-TANK 28	CA LUST
MOFFETT FIELD NAS-TANK 69	CA LUST
MOFFETT FIELD NAS-TANK 26	CA LUST
U.S. NAVY HOUSING PROJECT	CA LUST
GOODSELL VOCKE INC	CA CPS-SLIC
SOUTHERN PACIFIC RAILROAD	CA ENVIROSTOR

OVERVIEW MAP - 5591584.2S



0 1/4 1/2 1 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- 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:	1001-1091 Sterlin Rd & 1130-1170 Terra Bella Ave	CLIENT:	EKI Environment & Water, Inc.
ADDRESS:	1001-1091 N Shoreline Blvd & 1062 Linda Vista Ave Mountain View CA 94043	CONTACT:	James Yoon
LAT/LONG:	37.409251 / 122.077312	INQUIRY #:	5591584.2s
		DATE:	March 15, 2019 2:17 pm

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DETAIL MAP - 5591584.2S



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

100-year flood zone

500-year flood zone

Areas of Concern

N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	1001-1091 Sterlin Rd & 1130-1170 Terra Bella Ave	CLIENT:	EKI Environment & Water, Inc.
ADDRESS:	1001-1091 N Shoreline Blvd & 1062 Linda Vista Ave Mountain View CA 94043	CONTACT:	James Yoon
LAT/LONG:	37.409251 / 122.077312	INQUIRY #:	5591584.2s
		DATE:	March 15, 2019 2:20 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		2	0	0	4	NR	6
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		2	0	1	NR	NR	3
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		1	0	0	NR	NR	1
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		2	0	0	0	NR	2
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	1	NR	NR	NR	1
RCRA-SQG	0.250	1	5	14	NR	NR	NR	20
RCRA-CESQG	0.250		0	1	NR	NR	NR	1
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		2	0	0	NR	NR	2
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
CA RESPONSE	1.000		0	0	1	1	NR	2
State- and tribal - equivalent CERCLIS								
CA ENVIROSTOR	1.000		1	2	3	12	NR	18
State and tribal landfill and/or solid waste disposal site lists								
CA SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
CA LUST	0.500		6	12	14	NR	NR	32

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
CA CPS-SLIC	0.500	1	2	8	12	NR	NR	23
CA HIST LUST	0.500		3	8	9	NR	NR	20
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
CA UST	0.250		0	9	NR	NR	NR	9
CA AST	0.250		0	5	NR	NR	NR	5
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
CA VCP	0.500		0	0	1	NR	NR	1
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
CA 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								
CA WMUDS/SWAT	0.500		0	0	0	NR	NR	0
CA SWRCY	0.500		0	1	0	NR	NR	1
CA HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
CA HIST Cal-Sites	1.000		0	2	1	3	NR	6
CA SCH	0.250		0	0	NR	NR	NR	0
CA CDL	0.001		0	NR	NR	NR	NR	0
CA Toxic Pits	1.000		0	0	0	0	NR	0
CA CERS HAZ WASTE	0.250		6	11	NR	NR	NR	17
US CDL	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
CA SWEEPS UST	0.250		3	7	NR	NR	NR	10
CA HIST UST	0.250		4	17	NR	NR	NR	21
CA CERS TANKS	0.250		0	3	NR	NR	NR	3
CA FID UST	0.250		3	5	NR	NR	NR	8
Local Land Records								
CA 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
CA DEED	0.500		0	3	1	NR	NR	4
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CA CHMIRS	0.001		0	NR	NR	NR	NR	0
CA LDS	0.001		0	NR	NR	NR	NR	0
CA MCS	0.001		0	NR	NR	NR	NR	0
CA SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		2	5	NR	NR	NR	7
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	1	NR	1
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		2	0	0	4	NR	6
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	1	NR	1
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.001		0	NR	NR	NR	NR	0
FINDS	0.001	4	1	NR	NR	NR	NR	5
UXO	1.000		0	0	0	0	NR	0
ECHO	0.001	1	0	NR	NR	NR	NR	1
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	1	0	2	NR	3
CA Cortese	0.500		0	2	0	NR	NR	2
CA CUPA Listings	0.250		28	37	NR	NR	NR	65

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
CA DRYCLEANERS	0.250		0	0	NR	NR	NR	0
CA EMI	0.001	1	0	NR	NR	NR	NR	1
CA ENF	0.001		0	NR	NR	NR	NR	0
CA Financial Assurance	0.001		0	NR	NR	NR	NR	0
CA HAZNET	0.001	2	0	NR	NR	NR	NR	2
CA ICE	0.001		0	NR	NR	NR	NR	0
CA HIST CORTESE	0.500		4	11	12	NR	NR	27
CA HWP	1.000		0	2	0	0	NR	2
CA HWT	0.250		0	0	NR	NR	NR	0
NY MANIFEST	0.250		1	0	NR	NR	NR	1
CA MINES	0.001		0	NR	NR	NR	NR	0
CA MWMP	0.250		0	0	NR	NR	NR	0
CA NPDES	0.001	2	0	NR	NR	NR	NR	2
CA PEST LIC	0.001		0	NR	NR	NR	NR	0
CA PROC	0.500		0	0	0	NR	NR	0
CA Notify 65	1.000		0	1	0	1	NR	2
CA SAN JOSE HAZMAT	0.250		0	0	NR	NR	NR	0
CA UIC	0.001		0	NR	NR	NR	NR	0
CA UIC GEO	0.001		0	NR	NR	NR	NR	0
CA WASTEWATER PITS	0.500		0	0	0	NR	NR	0
CA WDS	0.001		0	NR	NR	NR	NR	0
CA MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
CA PROJECT	0.001		0	NR	NR	NR	NR	0
CA WDR	0.001		0	NR	NR	NR	NR	0
CA CIWQS	0.001	2	0	NR	NR	NR	NR	2
CA CERS	0.001	2	0	NR	NR	NR	NR	2
CA WIP	0.250		0	0	NR	NR	NR	0
CA NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
CA OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
CA PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
CA SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
CA WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		1	NR	NR	NR	NR	1
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
CA RGA LF	0.001		0	NR	NR	NR	NR	0
CA RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		16	81	168	55	29	0	349

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 Target Property — **OLIN MESA CORPORATION**, **1130 TERRA BELLA**, **MOUNTAIN VIEW, CA 94043** — **RCRA-SQG**, **FINDS**, **ECHO** — **1000305575**, **CAD981395205**

Site 1 of 9 in cluster A

Actual: 37 ft.

RCRA-SQG:

Date form received by agency:	06/07/1990
Facility name:	OLIN MESA CORPORATION
Facility address:	1130 TERRA BELLA MOUNTAIN VIEW, CA 94043-0000
EPA ID:	CAD981395205
Contact:	CURT M RICHARDS
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	415-982-2234
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	OLIN CORPORATION
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No

OLIN MESA CORPORATION (Continued) **1000305575**

Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:
Date form received by agency: 04/14/1986
Site name: OLIN MESA CORPORATION
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002692676

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: 1000305575
Registry ID: 110002692676
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002692676

A2 Target Property **OLIN MESA CORPORATION** **CA EMI** **S106836619**
1130 TERRA BELLA AVENUE **N/A**
MOUNTAIN VIEW, CA 94043

Site 2 of 9 in cluster A

Actual: 37 ft.

EMI:

Year:	1987
County Code:	43
Air Basin:	SF
Facility ID:	2163
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	9

OLIN MESA CORPORATION (Continued) **S106836619**

Reactive Organic Gases Tons/Yr: 5
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 1
Part. Matter 10 Micrometers and Smllr Tons/Yr: 1

A3 **CALVANO DEVELOPMENT** **FINDS** **1023318016**
Target **1001 N SHORELINEBLVD** **N/A**
Property **MOUNTAIN VIEW, CA 94043**

Site 3 of 9 in cluster A

Actual: **37 ft.**

FINDS:

Registry ID: 110066114074

Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A4 **VERIZON WIRELESS HWY 101 & 85 (RELO)** **FINDS** **1023363890**
Target **1062 LINDA VISTA AVE** **N/A**
Property **MOUNTAIN VIEW, CA 94043**

Site 4 of 9 in cluster A

Actual: **37 ft.**

FINDS:

Registry ID: 110066612847

Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A5 **CHARLESTON SOUTH GREEN LOOP PHASE 2** **CA NPDES** **S117041255**
Target **1015 1055 JOAQUIN RD 1742 1758 1765 1804 N SHORELINE BLVD** **CA CIWQS** **N/A**
Property **MOUNTAIN VIEW, CA 94043**

Site 5 of 9 in cluster A

Actual: **37 ft.**

NPDES:
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

CHARLESTON SOUTH GREEN LOOP PHASE 2 (Continued) **S117041255**

WDID:	2 43C370275
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	10/08/2015
Operator Name:	Google Inc
Operator Address:	1600 Amphitheatre Parkway
Operator City:	Mountain View
Operator State:	California
Operator Zip:	94043

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	447234
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	2 43C370275
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:	09/16/2015
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	07/10/2014
Processed Date:	07/16/2014
Status:	Terminated
Status Date:	10/08/2015
Place Size:	1.48
Place Size Unit:	Acres
Contact:	John Igoe
Contact Title:	Not reported
Contact Phone:	650-810-5809
Contact Phone Ext:	Not reported
Contact Email:	johni@google.com
Operator Name:	Google Inc
Operator Address:	1600 Amphitheatre Parkway
Operator City:	Mountain View
Operator State:	California
Operator Zip:	94043
Operator Contact:	John Igoe
Operator Contact Title:	Not reported

CHARLESTON SOUTH GREEN LOOP PHASE 2 (Continued) **S117041255**

Operator Contact Phone:	650-810-5809
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	johni@google.com
Operator Type:	Private Business
Developer:	Google Inc
Developer Address:	1600 Amphitheatre Parkway
Developer City:	Mountain View
Developer State:	California
Developer Zip:	94043
Developer Contact:	John Igoe
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	N
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	N
Constype Below Ground Ind:	N
Constype Cable Line Ind:	N
Constype Comm Line Ind:	N
Constype Commertial Ind:	N
Constype Electrical Line Ind:	N
Constype Gas Line Ind:	N
Constype Industrial Ind:	N
Constype Other Description:	Not reported
Constype Other Ind:	N
Constype Recons Ind:	N
Constype Residential Ind:	N
Constype Transport Ind:	Y
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:	John Igoe
Certifier Title:	Director REWS
Certification Date:	10-JUL-14
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000002
Status:	Terminated
Agency Number:	0
Region:	2
Regulatory Measure ID:	447234
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 43C370275
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	07/16/2014
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	09/16/2015
Discharge Name:	Google Inc
Discharge Address:	1600 Amphitheatre Parkway
Discharge City:	Mountain View
Discharge State:	California

CHARLESTON SOUTH GREEN LOOP PHASE 2 (Continued) **S117041255**

Discharge Zip:	94043
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CHARLESTON SOUTH GREEN LOOP PHASE 2 (Continued) **S117041255**

CIWQS:

Agency:	Google Inc
Agency Address:	1600 Amphitheatre Parkway, Mountain View, CA 94043
Place/Project Type:	Construction - Transportation
SIC/NAICS:	Not reported
Region:	2
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	2 43C370275
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	07/16/2014
Termination Date:	09/16/2015
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	37.4185
Longitude:	-122.07901

A6 **CALVANO DEVELOPMENT** **CA CPS-SLIC** **S118172383**
Target **1001 N SHORELINEBLVD** **CA HAZNET** **N/A**
Property **MOUNTAIN VIEW, CA 94043** **CA NPDES**
CA CIWQS
Site 6 of 9 in cluster A **CA CERS**

Actual:
37 ft.

CPS-SLIC:

Region:	STATE
Facility Status:	**Open - Assessment & Interim Remedial Action**
Status Date:	09/14/2015
Global Id:	T10000007375
Lead Agency:	SANTA CLARA COUNTY LOP
Lead Agency Case Number:	06S2W15M04s
Latitude:	37.4092258670841
Longitude:	-122.077334812164
Case Type:	Cleanup Program Site
Case Worker:	AC
Local Agency:	SANTA CLARA COUNTY LOP
RB Case Number:	Not reported
File Location:	All Files are on GeoTracker or in the Local Agency Database
Potential Media Affected:	Soil, Soil Vapor, Under Investigation
Potential Contaminants of Concern:	Acetone, Tetrachloroethylene (PCE), Trichloroethylene (TCE), Vinyl chloride, Benzene, Ethylbenzene, MTBE / TBA / Other Fuel Oxygenates, Toluene, Total Petroleum Hydrocarbons (TPH), Xylene
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

HAZNET:

Facility Name:	CALVANO/CRP MOUNTAIN VIEW VENTURE, LLC
envid:	S118172383
Year:	2015

CALVANO DEVELOPMENT (Continued) **S118172383**

GEPAID: CAC002830933
Contact: STEVE MCGAVERN
Telephone: 6509605501
Mailing Name: Not reported
Mailing Address: 3675 MT. DIABLO BLVD
Mailing City,St,Zip: LAFAYETTE, CA 94549
Gen County: Riverside
TSD EPA ID: CAD981382732
TSD County: Alameda
Waste Category: Asbestos containing waste
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 23
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Riverside

NPDES:
Facility Status: Not reported
NPDES Number: Not reported
Region: Not reported
Agency Number: Not reported
Regulatory Measure ID: Not reported
Place ID: Not reported
Order Number: Not reported
WDID: 2 43C374448
Regulatory Measure Type: Construction
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: Not reported
Discharge Name: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
Status: Active
Status Date: 10/29/2015
Operator Name: Calvano CRP Mountain View LLC
Operator Address: 3675 Mt Diablo Blvd Suite 310
Operator City: Lafayette
Operator State: California
Operator Zip: 94549

NPDES as of 03/2018:
NPDES Number: Not reported
Status: Not reported
Agency Number: Not reported
Region: 2
Regulatory Measure ID: 465650
Order Number: Not reported
Regulatory Measure Type: Construction
Place ID: Not reported
WDID: 2 43C374448
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported

CALVANO DEVELOPMENT (Continued) **S118172383**

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:	10/29/2015
Processed Date:	10/29/2015
Status:	Active
Status Date:	10/29/2015
Place Size:	7.36
Place Size Unit:	Acres
Contact:	David Kingery
Contact Title:	Vice President
Contact Phone:	415-318-3933
Contact Phone Ext:	Not reported
Contact Email:	Dave.Kingery@carlyle.com
Operator Name:	Calvano CRP Mountain View LLC
Operator Address:	3675 Mt Diablo Blvd Suite 310
Operator City:	Lafayette
Operator State:	California
Operator Zip:	94549
Operator Contact:	David Kingery
Operator Contact Title:	Vice President
Operator Contact Phone:	415-318-3933
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Dave.Kingery@carlyle.com
Operator Type:	Private Business
Developer:	Calvano CRP Mountain View LLC
Developer Address:	3675 Mt Diablo Blvd Suite 310
Developer City:	Lafayette
Developer State:	California
Developer Zip:	94549
Developer Contact:	David Kingery
Developer Contact Title:	Vice President
Constype Linear Utility Ind:	N
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	N
Constype Below Ground Ind:	N
Constype Cable Line Ind:	N
Constype Comm Line Ind:	N
Constype Commertial Ind:	N
Constype Electrical Line Ind:	N
Constype Gas Line Ind:	N
Constype Industrial Ind:	N
Constype Other Description:	Not reported
Constype Other Ind:	N
Constype Recons Ind:	N
Constype Residential Ind:	N
Constype Transport Ind:	N
Constype Utility Description:	Not reported
Constype Utility Ind:	N
Constype Water Sewer Ind:	N
Dir Discharge Uswater Ind:	N

CALVANO DEVELOPMENT (Continued) **S118172383**

Receiving Water Name:	Stevens Creek, Permanente Creek
Certifier:	David Kingery
Certifier Title:	Vice President
Certification Date:	29-OCT-15
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000002
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	465650
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 43C374448
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	10/29/2015
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Calvano CRP Mountain View LLC
Discharge Address:	3675 Mt Diablo Blvd Suite 310
Discharge City:	Lafayette
Discharge State:	California
Discharge Zip:	94549
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported

CALVANO DEVELOPMENT (Continued) **S118172383**

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

Facility Status:	Active
NPDES Number:	CAS000002
Region:	2
Agency Number:	0
Regulatory Measure ID:	465650
Place ID:	Not reported
Order Number:	2009-0009-DWQ
WDID:	2 43C374448
Regulatory Measure Type:	Enrollee
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	10/29/2015
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	3675 Mt Diablo Blvd Suite 310
Discharge Name:	Calvano CRP Mountain View LLC
Discharge City:	Lafayette
Discharge State:	California
Discharge Zip:	94549
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported

CALVANO DEVELOPMENT (Continued) **S118172383**

Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	465650
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	2 43C374448
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:	10/29/2015
Processed Date:	10/29/2015
Status:	Active
Status Date:	10/29/2015
Place Size:	7.36
Place Size Unit:	Acres
Contact:	David Kingery
Contact Title:	Vice President
Contact Phone:	415-318-3933
Contact Phone Ext:	Not reported
Contact Email:	Dave.Kingery@carlyle.com
Operator Name:	Calvano CRP Mountain View LLC
Operator Address:	3675 Mt Diablo Blvd Suite 310
Operator City:	Lafayette
Operator State:	California
Operator Zip:	94549
Operator Contact:	David Kingery
Operator Contact Title:	Vice President
Operator Contact Phone:	415-318-3933
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Dave.Kingery@carlyle.com
Operator Type:	Private Business
Developer:	Calvano CRP Mountain View LLC
Developer Address:	3675 Mt Diablo Blvd Suite 310
Developer City:	Lafayette
Developer State:	California
Developer Zip:	94549
Developer Contact:	David Kingery
Developer Contact Title:	Vice President
Constype Linear Utility Ind:	N
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	N
Constype Below Ground Ind:	N
Constype Cable Line Ind:	N
Constype Comm Line Ind:	N
Constype Commertial Ind:	N
Constype Electrical Line Ind:	N
Constype Gas Line Ind:	N
Constype Industrial Ind:	N

CALVANO DEVELOPMENT (Continued) **S118172383**

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:	Stevens Creek, Permanente Creek
Certifier:	David Kingery
Certifier Title:	Vice President
Certification Date:	29-OCT-15
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000002
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	465650
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 43C374448
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	10/29/2015
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Calvano CRP Mountain View LLC
Discharge Address:	3675 Mt Diablo Blvd Suite 310
Discharge City:	Lafayette
Discharge State:	California
Discharge Zip:	94549
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

CALVANO DEVELOPMENT (Continued) **S118172383**

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:

Agency:	Calvano CRP Mountain View LLC
Agency Address:	3675 Mt Diablo Blvd Suite 310, Lafayette, CA 94549
Place/Project Type:	Construction
SIC/NAICS:	Not reported
Region:	2
Program:	CONSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	2 43C374448
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	10/29/2015
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported

CALVANO DEVELOPMENT (Continued) **S118172383**

Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 37.40956
Longitude: -122.07682

CERS TANKS:
Site ID: 357713
CERS ID: T10000007375
CERS Description: Cleanup Program Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: AARON COSTA - SANTA CLARA COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: SAN JOSE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 4089181954

Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

A7 **OXIGRAFNA INC.** **FINDS** **1023206951**
Target **1170 TERRA BELLA AVENUE** **N/A**
Property **MOUNTAIN VIEW, CA 94043**

Site 7 of 9 in cluster A

Actual:
37 ft.

FINDS:

Registry ID: 110064921072

Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A8 **MCCANDLESS LAND AND CATTLE COMPANY** **CA HAZNET** **S112905361**
Target **1091 N SHORELINE BLVD** **N/A**
Property **MOUNTAIN VIEW, CA 94043**

Site 8 of 9 in cluster A

Actual: **37 ft.**

HAZNET:

Facility Name:	MCCANDLESS LAND AND CATTLE COMPANY
envid:	S112905361
Year:	1999
GEPAID:	CAC002223889
Contact:	MCCANDLESS LAND AND CATTLE CO
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	PO BOX 500
Mailing City,St,Zip:	HONAUNAU, HI 967260000
Gen County:	Not reported
TSD EPA ID:	CAD059494310
TSD County:	Not reported
Waste Category:	Waste oil and mixed oil
Disposal Method:	Disposal, Other
Tons:	.0834
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

A9 **VERIZON WIRELESS HWY 101 & 85 (RELO)** **CA CERS** **S121792433**
Target **1062 LINDA VISTA AVE** **N/A**
Property **MOUNTAIN VIEW, CA 94043**

Site 9 of 9 in cluster A

Actual: **37 ft.**

CERS TANKS:

Site ID:	81359
CERS ID:	10419844
CERS Description:	Chemical Storage Facilities

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-17-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-18-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No Violations
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-17-2018
Violations Found:	No
Eval Type:	Routine done by local agency

VERIZON WIRELESS HWY 101 & 85 (RELO) (Continued) **S121792433**

Eval Notes: No Violations
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 81359
Facility Name: Verizon Wireless Hwy 101 & 85 (Relo)
Env Int Type Code: HMBP
Program ID: 10419844
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 37.409520
Longitude: -122.076180

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Santa Clara County Environmental Health
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: San Jose
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95112-2716
Affiliation Phone: (408) 918-3400

Affiliation Type Desc: Legal Owner
Entity Name: Verizon Wireless
Entity Title: Not reported
Affiliation Address: 295 Parkshore Drive
Affiliation City: Folsom
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95630
Affiliation Phone: (866) 894-2415

Affiliation Type Desc: Parent Corporation
Entity Name: Verizon Wireless [Northern California]
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: Steve Skanderson
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

VERIZON WIRELESS HWY 101 & 85 (RELO) (Continued) **S121792433**

Affiliation Type Desc:	Environmental Contact
Entity Name:	Environmental Compliance
Entity Title:	Not reported
Affiliation Address:	295 Parkshore Drive
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	(866) 694-2415

Affiliation Type Desc:	Identification Signer
Entity Name:	armand delgado
Entity Title:	environmental compliance mgr
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	295 Parkshore Drive
Affiliation City:	Folsom
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95630
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Verizon Wireless
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(866) 694-2415

DOD **MOFFETT FIELD NAVAL AIR STATION (CLOSED)** **DOD** **CUSA136599**
Region **N/A**
East **MOFFETT FIELD NAVAL AIR S (County), CA**
1/2-1
3425 ft.

DOD:

Feature 1:	Navy DOD
Feature 2:	Not reported
Feature 3:	Not reported
URL:	Not reported
Name 1:	Moffett Field Naval Air Station (Closed)
Name 2:	Not reported
Name 3:	Not reported
State:	CA
DOD Site:	Yes
Tile name:	CASANTA_CLARA

NPL **MOFFETT NAVAL AIR STATION** **NPL** **1000228683**
Region **MOFFETT FIELD NAS** **SEMS** **CA2170090078**
East **MOFFETT FIELD, CA 94035** **US ENG CONTROLS**
1/2-1 **US INST CONTROL**
3101 ft. **ROD**
PRP

NPL:
EPA ID: CA2170090078
Cerclis ID: 902734
EPA Region: 9
Federal: Y
Final Date: 1987-07-22 00:00:00
Site Score: 29.489999999999998
Latitude: 37.411389
Longitude: -122.0522

Category Details:
NPL Status: Currently on the Final NPL
Category Description: Depth To Aquifer-<= 10 Feet
Category Value: 0

NPL Status: Currently on the Final NPL
Category Description: Distance To Nearest Population-> 0 And <= 1/4 Mile
Category Value: 10

Site Details:
Site Name: MOFFETT NAVAL AIR STATION
Site Status: Final
Site Zip: 94035
Site City: MOFFETT FIELD
Site State: CA
Federal Site: Yes
Site County: SANTA CLARA
EPA Region: 09
Date Proposed: 04/10/85
Date Deleted: Not reported
Date Finalized: 07/22/87

Substance Details:
NPL Status: Currently on the Final NPL
Substance ID: Not reported
Substance: Not reported
CAS #: Not reported
Pathway: Not reported
Scoring: Not reported

NPL Status: Currently on the Final NPL
Substance ID: U044
Substance: CHLOROFORM
CAS #: 67-66-3
Pathway: GROUND WATER PATHWAY
Scoring: 4

NPL Status: Currently on the Final NPL
Substance ID: U078
Substance: DICHLOROETHENE, 1,1-
CAS #: 75-35-4

MOFFETT NAVAL AIR STATION (Continued) **1000228683**

Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U210
Substance: TETRACHLOROETHENE
CAS #: 127-18-4
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U220
Substance: TOLUENE
CAS #: 108-88-3
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U228
Substance: TRICHLOROETHYLENE (TCE)
CAS #: 79-01-6
Pathway: GROUND WATER PATHWAY
Scoring: 2

Summary Details:

Conditions at proposal April 10, 1985): Moffett Naval Air Station covers 8,700 acres in Sunnyvale, Santa Clara County, California. In the past, various solvents and sludges were disposed on-site into ponds and landfills and onto the ground.As a result, soil and ground water on-site are contaminated. The major contaminants in ground water are volatile organic compounds. About 272,000 people depend on wells within 3 miles of the station as a source of drinking water. Moffett Naval Air Station is participating in the Installation Restoration Program IRP), established in 1978. Under this program, the Department of Defense seeks to identify, investigate, and clean up contamination from ha ardous materials. The Navy has completed Phase I records search) of the program and is beginning Phase II remedial investigation). Moffett Naval Air Station is in the South Bay Area of San Francisco. In October 1984, 19 non-Federal sites in the area were proposed for the NPL. Facilities at these sites have used a variety of toxic chemicals, primarily chlorinated organic solvents, which contaminate a common ground water basin. Although these sites are listed separately, EPA intends to apply an area-wide approach to the problem as well as take site-specific action as necessary. Status July 22, 1987): In May 1985, the California Regional Water Quality Control Board adopted Waste Discharge Requirements for Moffett Naval Air Station.The requirements outline specific tasks and compliance dates Moffett must follow to define the full extent of contamination in soils and ground water. In April 1986, the Navy released the final report for the verification step of Phase II.Moffett is revising the quality assurance project plan and sample plan for the characteri ation step of Phase II. Within the boundaries of this Federal facility, including this specific site, there are no areas subject to the Subtitle C corrective action authorities of the Resource Conservation and Recovery Act. Therefore, this Federal facility site is being placed on the Federal section of the NPL.

Site Status Details:
NPL Status: Final

MOFFETT NAVAL AIR STATION (Continued) **1000228683**

Proposed Date: 04/10/1985
Final Date: 07/22/1987
Deleted Date: Not reported

Narratives Details:
NPL Name: MOFFETT NAVAL AIR STATION
City: MOFFETT FIELD
State: CA

SEMS:
Site ID: 0902734
EPA ID: CA2170090078
Cong District: 14,18
FIPS Code: 06085
Latitude: 37.411389
Longitude: -122.052200
FF: Y
NPL: Currently on the Final NPL
Non NPL Status: Not reported

SEMS Detail:
Region: 09
Site ID: 0902734
EPA ID: CA2170090078
Site Name: MOFFETT FIELD NAVAL AIR STATION
NPL: F
FF: Y
OU: 00
Action Code: HR
Action Name: HAZRANK
SEQ: 1
Start Date: 1984-12-01 06:00:00
Finish Date: 12/1/1984 6:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0902734
EPA ID: CA2170090078
Site Name: MOFFETT FIELD NAVAL AIR STATION
NPL: F
FF: Y
OU: 00
Action Code: TA
Action Name: TECH ASSIST
SEQ: 1
Start Date: 2016-07-21 04:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0902734
EPA ID: CA2170090078
Site Name: MOFFETT FIELD NAVAL AIR STATION
NPL: F

MOFFETT NAVAL AIR STATION (Continued) **1000228683**

FF:	Y
OU:	00
Action Code:	CR
Action Name:	CI
SEQ:	1
Start Date:	2016-08-10 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	00
Action Code:	NP
Action Name:	PROPOSED
SEQ:	1
Start Date:	1985-04-10 06:00:00
Finish Date:	4/10/1985 6:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	00
Action Code:	NF
Action Name:	NPL FINL
SEQ:	1
Start Date:	1987-07-22 04:00:00
Finish Date:	7/22/1987 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	00
Action Code:	TG
Action Name:	TA GRANT
SEQ:	2
Start Date:	2007-10-07 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0902734

MOFFETT NAVAL AIR STATION (Continued) **1000228683**

EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	00
Action Code:	AR
Action Name:	ADMIN REC
SEQ:	1
Start Date:	2000-07-24 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	04
Action Code:	RO
Action Name:	ROD
SEQ:	6
Start Date:	1989-06-09 04:00:00
Finish Date:	6/9/1989 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	00
Action Code:	MA
Action Name:	ST COOP
SEQ:	1
Start Date:	1991-05-15 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	01
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	4
Start Date:	1989-08-08 04:00:00
Finish Date:	8/22/2002 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

MOFFETT NAVAL AIR STATION (Continued) **1000228683**

Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	02
Action Code:	LY
Action Name:	FF RA
SEQ:	1
Start Date:	1994-06-13 04:00:00
Finish Date:	10/9/1995 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	05
Action Code:	RO
Action Name:	ROD
SEQ:	3
Start Date:	1996-06-28 04:00:00
Finish Date:	6/28/1996 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	02
Action Code:	RO
Action Name:	ROD
SEQ:	1
Start Date:	1994-12-22 05:00:00
Finish Date:	12/22/1994 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	01
Action Code:	RO
Action Name:	ROD
SEQ:	2
Start Date:	1997-08-14 04:00:00
Finish Date:	8/14/1997 4:00:00 AM

MOFFETT NAVAL AIR STATION (Continued) **1000228683**

Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	07
Action Code:	LX
Action Name:	FF RD
SEQ:	5
Start Date:	2002-08-02 04:00:00
Finish Date:	1/8/2003 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	01
Action Code:	LX
Action Name:	FF RD
SEQ:	3
Start Date:	1997-08-19 04:00:00
Finish Date:	8/19/1997 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	02
Action Code:	LX
Action Name:	FF RD
SEQ:	1
Start Date:	1994-02-04 05:00:00
Finish Date:	6/13/1994 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	01
Action Code:	LW
Action Name:	FF RI/FS

MOFFETT NAVAL AIR STATION (Continued) **1000228683**

SEQ: 1
Start Date: 1989-08-08 04:00:00
Finish Date: 8/14/1997 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902734
EPA ID: CA2170090078
Site Name: MOFFETT FIELD NAVAL AIR STATION
NPL: F
FF: Y
OU: 05
Action Code: LW
Action Name: FF RI/FS
SEQ: 2
Start Date: 1989-08-08 04:00:00
Finish Date: 6/28/1996 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902734
EPA ID: CA2170090078
Site Name: MOFFETT FIELD NAVAL AIR STATION
NPL: F
FF: Y
OU: 00
Action Code: SI
Action Name: SI
SEQ: 1
Start Date: 1984-12-01 06:00:00
Finish Date: 12/1/1984 6:00:00 AM
Qual: H
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902734
EPA ID: CA2170090078
Site Name: MOFFETT FIELD NAVAL AIR STATION
NPL: F
FF: Y
OU: 05
Action Code: NI
Action Name: FF FS
SEQ: 5
Start Date: 1995-09-30 04:00:00
Finish Date: 6/26/1996 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902734
EPA ID: CA2170090078
Site Name: MOFFETT FIELD NAVAL AIR STATION
NPL: F
FF: Y

MOFFETT NAVAL AIR STATION (Continued) **1000228683**

OU:	10
Action Code:	EE
Action Name:	EE/CA
SEQ:	1
Start Date:	2015-02-20 05:00:00
Finish Date:	3/1/2018 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	05
Action Code:	LX
Action Name:	FF RD
SEQ:	8
Start Date:	2015-01-16 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1984-12-01 06:00:00
Finish Date:	12/1/1984 6:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	06
Action Code:	LX
Action Name:	FF RD
SEQ:	2
Start Date:	2011-03-01 05:00:00
Finish Date:	3/7/2012 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902734
EPA ID:	CA2170090078

MOFFETT NAVAL AIR STATION (Continued) **1000228683**

Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	01
Action Code:	NH
Action Name:	FF RI
SEQ:	1
Start Date:	1992-07-06 04:00:00
Finish Date:	3/20/1996 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1984-12-01 06:00:00
Finish Date:	12/1/1984 6:00:00 AM
Qual:	H
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	07
Action Code:	RO
Action Name:	ROD
SEQ:	5
Start Date:	2002-06-25 04:00:00
Finish Date:	6/25/2002 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	06
Action Code:	LY
Action Name:	FF RA
SEQ:	4
Start Date:	2012-05-21 04:00:00
Finish Date:	8/29/2013 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

MOFFETT NAVAL AIR STATION (Continued) **1000228683**

Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	01
Action Code:	LY
Action Name:	FF RA
SEQ:	3
Start Date:	1997-10-01 04:00:00
Finish Date:	11/8/2001 5:00:00 AM
Qual:	IR
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	07
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	5
Start Date:	1989-08-08 04:00:00
Finish Date:	6/25/2002 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	05
Action Code:	LX
Action Name:	FF RD
SEQ:	4
Start Date:	1997-02-24 05:00:00
Finish Date:	5/22/1997 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	05
Action Code:	LY
Action Name:	FF RA
SEQ:	2
Start Date:	1997-08-01 04:00:00
Finish Date:	11/8/2001 5:00:00 AM

MOFFETT NAVAL AIR STATION (Continued) **1000228683**

Qual:	IR
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	06
Action Code:	NI
Action Name:	FF FS
SEQ:	2
Start Date:	2005-06-21 04:00:00
Finish Date:	12/11/2009 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	05
Action Code:	OM
Action Name:	OM
SEQ:	1
Start Date:	2001-11-08 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	06
Action Code:	LV
Action Name:	FF RV
SEQ:	3
Start Date:	2009-05-11 04:00:00
Finish Date:	11/19/2013 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	06
Action Code:	RO
Action Name:	ROD

MOFFETT NAVAL AIR STATION (Continued) **1000228683**

SEQ:	4
Start Date:	2009-12-11 05:00:00
Finish Date:	12/11/2009 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	08
Action Code:	LY
Action Name:	FF RA
SEQ:	7
Start Date:	2006-04-24 04:00:00
Finish Date:	4/27/2012 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	08
Action Code:	LX
Action Name:	FF RD
SEQ:	7
Start Date:	2005-09-16 04:00:00
Finish Date:	4/11/2006 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	08
Action Code:	RO
Action Name:	ROD
SEQ:	7
Start Date:	2005-07-07 04:00:00
Finish Date:	7/7/2005 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y

MOFFETT NAVAL AIR STATION (Continued) **1000228683**

OU:	08
Action Code:	NI
Action Name:	FF FS
SEQ:	1
Start Date:	2002-11-30 05:00:00
Finish Date:	7/30/2003 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	01
Action Code:	RO
Action Name:	ROD
SEQ:	8
Start Date:	2002-08-22 04:00:00
Finish Date:	8/22/2002 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	06
Action Code:	LV
Action Name:	FF RV
SEQ:	1
Start Date:	2003-07-31 04:00:00
Finish Date:	1/5/2004 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	06
Action Code:	LV
Action Name:	FF RV
SEQ:	2
Start Date:	2003-11-19 05:00:00
Finish Date:	2/12/2004 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902734
EPA ID:	CA2170090078

MOFFETT NAVAL AIR STATION (Continued) **1000228683**

Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	04
Action Code:	LY
Action Name:	FF RA
SEQ:	6
Start Date:	1996-12-11 05:00:00
Finish Date:	9/30/2002 4:00:00 AM
Qual:	IR
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	04
Action Code:	LX
Action Name:	FF RD
SEQ:	6
Start Date:	1991-05-14 04:00:00
Finish Date:	12/11/1996 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	03
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	6
Start Date:	1985-06-09 05:00:00
Finish Date:	6/9/1989 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	02
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	3
Start Date:	1989-08-08 04:00:00
Finish Date:	12/22/1994 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

MOFFETT NAVAL AIR STATION (Continued) **1000228683**

Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	00
Action Code:	LZ
Action Name:	FF CR
SEQ:	1
Start Date:	1989-08-08 04:00:00
Finish Date:	9/16/2002 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	00
Action Code:	TG
Action Name:	TA GRANT
SEQ:	1
Start Date:	1993-04-08 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902734
EPA ID:	CA2170090078
Site Name:	MOFFETT FIELD NAVAL AIR STATION
NPL:	F
FF:	Y
OU:	07
Action Code:	LY
Action Name:	FF RA
SEQ:	5
Start Date:	2003-01-02 05:00:00
Finish Date:	3/15/2004 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

US ENG CONTROLS:

EPA ID:	CA2170090078
Site ID:	0902734
Name:	MOFFETT NAVAL AIR STATION
Address:	MOFFETT FIELD NAS MOFFETT FIELD, CA 94035
EPA Region:	09
County:	SANTA CLARA
Event Code:	Not reported
Actual Date:	09/30/2010
Contact Name:	Not reported

MOFFETT NAVAL AIR STATION (Continued) **1000228683**

Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 12/22/1994
Operable Unit: 02
Contaminated Media : Soil
Engineering Control: No Action
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 08/14/1997
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Leachate Control
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 08/14/1997
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 08/14/1997
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Cap
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 08/14/1997
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Consolidate
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 08/14/1997
Operable Unit: 01

MOFFETT NAVAL AIR STATION (Continued) **1000228683**

Contaminated Media : Soil
Engineering Control: Excavation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 08/14/1997
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Revegetation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 003
Action Name: RECORD OF DECISION
Action Completion date: 06/28/1996
Operable Unit: 05
Contaminated Media : Groundwater
Engineering Control: Air Stripping
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 003
Action Name: RECORD OF DECISION
Action Completion date: 06/28/1996
Operable Unit: 05
Contaminated Media : Groundwater
Engineering Control: Discharge
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 003
Action Name: RECORD OF DECISION
Action Completion date: 06/28/1996
Operable Unit: 05
Contaminated Media : Groundwater
Engineering Control: Extraction
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 003
Action Name: RECORD OF DECISION
Action Completion date: 06/28/1996
Operable Unit: 05
Contaminated Media : Groundwater
Engineering Control: Flocculation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 003

MOFFETT NAVAL AIR STATION (Continued) **1000228683**

Action Name: RECORD OF DECISION
Action Completion date: 06/28/1996
Operable Unit: 05
Contaminated Media : Groundwater
Engineering Control: Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 003
Action Name: RECORD OF DECISION
Action Completion date: 06/28/1996
Operable Unit: 05
Contaminated Media : Groundwater
Engineering Control: Operations & Maintenance (O&M)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 12/11/2009
Operable Unit: 06
Contaminated Media : Air
Engineering Control: No Action
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 12/11/2009
Operable Unit: 06
Contaminated Media : Groundwater
Engineering Control: No Action
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 12/11/2009
Operable Unit: 06
Contaminated Media : Sediment
Engineering Control: Dewatering
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 12/11/2009
Operable Unit: 06
Contaminated Media : Sediment
Engineering Control: Disposal
Contact Name: Not reported
Contact Phone and Ext: Not reported

MOFFETT NAVAL AIR STATION (Continued) **1000228683**

Event Code Description: Not reported

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 12/11/2009
Operable Unit: 06
Contaminated Media : Sediment
Engineering Control: Excavation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 12/11/2009
Operable Unit: 06
Contaminated Media : Sediment
Engineering Control: Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 12/11/2009
Operable Unit: 06
Contaminated Media : Sediment
Engineering Control: Revegetation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 12/11/2009
Operable Unit: 06
Contaminated Media : Sediment
Engineering Control: Solidification/Stabilization (Ex-Situ)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 12/11/2009
Operable Unit: 06
Contaminated Media : Sediment
Engineering Control: Solidification/Stabilization (In-Situ)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 12/11/2009
Operable Unit: 06
Contaminated Media : Sediment

MOFFETT NAVAL AIR STATION (Continued) **1000228683**

Engineering Control: Wetland Restoration
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 12/11/2009
Operable Unit: 06
Contaminated Media : Surface Water
Engineering Control: No Action
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 005
Action Name: RECORD OF DECISION
Action Completion date: 06/25/2002
Operable Unit: 07
Contaminated Media : Air
Engineering Control: Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 005
Action Name: RECORD OF DECISION
Action Completion date: 06/25/2002
Operable Unit: 07
Contaminated Media : Groundwater
Engineering Control: Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 005
Action Name: RECORD OF DECISION
Action Completion date: 06/25/2002
Operable Unit: 07
Contaminated Media : Soil
Engineering Control: Cap
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 005
Action Name: RECORD OF DECISION
Action Completion date: 06/25/2002
Operable Unit: 07
Contaminated Media : Surface Water
Engineering Control: Surface Water Control
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 006
Action Name: RECORD OF DECISION

MOFFETT NAVAL AIR STATION (Continued) **1000228683**

Action Completion date: 06/09/1989
Operable Unit: 04
Contaminated Media : Groundwater
Engineering Control: Air Stripping
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 006
Action Name: RECORD OF DECISION
Action Completion date: 06/09/1989
Operable Unit: 04
Contaminated Media : Groundwater
Engineering Control: Carbon Adsorption
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 006
Action Name: RECORD OF DECISION
Action Completion date: 06/09/1989
Operable Unit: 04
Contaminated Media : Groundwater
Engineering Control: Discharge
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 006
Action Name: RECORD OF DECISION
Action Completion date: 06/09/1989
Operable Unit: 04
Contaminated Media : Groundwater
Engineering Control: Extraction
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 006
Action Name: RECORD OF DECISION
Action Completion date: 06/09/1989
Operable Unit: 04
Contaminated Media : Groundwater
Engineering Control: Hydraulic Control
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 006
Action Name: RECORD OF DECISION
Action Completion date: 06/09/1989
Operable Unit: 04
Contaminated Media : Groundwater
Engineering Control: Seal well
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

MOFFETT NAVAL AIR STATION (Continued) **1000228683**

Action ID: 007
Action Name: RECORD OF DECISION
Action Completion date: 07/07/2005
Operable Unit: 08
Contaminated Media : Sediment
Engineering Control: Disposal
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 007
Action Name: RECORD OF DECISION
Action Completion date: 07/07/2005
Operable Unit: 08
Contaminated Media : Sediment
Engineering Control: Excavation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 007
Action Name: RECORD OF DECISION
Action Completion date: 07/07/2005
Operable Unit: 08
Contaminated Media : Sediment
Engineering Control: Revegetation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 007
Action Name: RECORD OF DECISION
Action Completion date: 07/07/2005
Operable Unit: 08
Contaminated Media : Soil
Engineering Control: Disposal
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 007
Action Name: RECORD OF DECISION
Action Completion date: 07/07/2005
Operable Unit: 08
Contaminated Media : Soil
Engineering Control: Excavation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 007
Action Name: RECORD OF DECISION
Action Completion date: 07/07/2005
Operable Unit: 08
Contaminated Media : Soil
Engineering Control: Revegetation
Contact Name: Not reported

MOFFETT NAVAL AIR STATION (Continued) **1000228683**

Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 008
Action Name: RECORD OF DECISION
Action Completion date: 08/22/2002
Operable Unit: 00
Contaminated Media : Soil
Engineering Control: No Action
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: ROD Amendment
Action Completion date: 08/16/2010
Operable Unit: 04
Contaminated Media : Soil Gas
Engineering Control: Enhanced Interior Ventilation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: ROD Amendment
Action Completion date: 08/16/2010
Operable Unit: 04
Contaminated Media : Soil Gas
Engineering Control: Indoor Air Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: ROD Amendment
Action Completion date: 08/16/2010
Operable Unit: 04
Contaminated Media : Soil Gas
Engineering Control: Passive Ventilation System
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: ROD Amendment
Action Completion date: 08/16/2010
Operable Unit: 04
Contaminated Media : Soil Gas
Engineering Control: Sealing (seal cracks in foundations etc.)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: ROD Amendment
Action Completion date: 08/16/2010
Operable Unit: 04

MOFFETT NAVAL AIR STATION (Continued) **1000228683**

Contaminated Media : Soil Gas
Engineering Control: Sub-Membrane Depressurization
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: ROD Amendment
Action Completion date: 08/16/2010
Operable Unit: 04
Contaminated Media : Soil Gas
Engineering Control: Sub-Slab Depressurization System
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: ROD Amendment
Action Completion date: 08/16/2010
Operable Unit: 04
Contaminated Media : Soil Gas
Engineering Control: Vapor Barrier
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

US INST CONTROL:
EPA ID: CA2170090078
Site ID: 0902734
Name: MOFFETT NAVAL AIR STATION
Action Name: RECORD OF DECISION
Address: MOFFETT FIELD NAS
MOFFETT FIELD, CA 94035
EPA Region: 09
County: SANTA CLARA
Event Code: Not reported
Inst. Control: Institutional Controls, (N.O.S.)
Actual Date: 09/30/1997
Complet. Date: 08/14/1997
Operable Unit: 01
Contaminated Media : Groundwater
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CA2170090078
Site ID: 0902734
Name: MOFFETT NAVAL AIR STATION
Action Name: RECORD OF DECISION
Address: MOFFETT FIELD NAS
MOFFETT FIELD, CA 94035
EPA Region: 09
County: SANTA CLARA
Event Code: Not reported
Inst. Control: Access Restriction, Fencing
Actual Date: 09/30/1997

MOFFETT NAVAL AIR STATION (Continued) **1000228683**

Complet. Date: 08/14/1997
Operable Unit: 01
Contaminated Media : Soil
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CA2170090078
Site ID: 0902734
Name: MOFFETT NAVAL AIR STATION
Action Name: RECORD OF DECISION
Address: MOFFETT FIELD NAS
MOFFETT FIELD, CA 94035
EPA Region: 09
County: SANTA CLARA
Event Code: Not reported
Inst. Control: Institutional Controls, (N.O.S.)
Actual Date: 09/30/1997
Complet. Date: 08/14/1997
Operable Unit: 01
Contaminated Media : Soil
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CA2170090078
Site ID: 0902734
Name: MOFFETT NAVAL AIR STATION
Action Name: RECORD OF DECISION
Address: MOFFETT FIELD NAS
MOFFETT FIELD, CA 94035
EPA Region: 09
County: SANTA CLARA
Event Code: Not reported
Inst. Control: Institutional Controls, (N.O.S.)
Actual Date: 06/30/1996
Complet. Date: 06/28/1996
Operable Unit: 05
Contaminated Media : Groundwater
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CA2170090078
Site ID: 0902734
Name: MOFFETT NAVAL AIR STATION
Action Name: RECORD OF DECISION
Address: MOFFETT FIELD NAS
MOFFETT FIELD, CA 94035
EPA Region: 09
County: SANTA CLARA
Event Code: Not reported
Inst. Control: Groundwater use/well drilling regulation
Actual Date: 06/30/2002
Complet. Date: 06/25/2002
Operable Unit: 07
Contaminated Media : Groundwater

MOFFETT NAVAL AIR STATION (Continued) **1000228683**

Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CA2170090078
Site ID: 0902734
Name: MOFFETT NAVAL AIR STATION
Action Name: RECORD OF DECISION
Address: MOFFETT FIELD NAS
MOFFETT FIELD, CA 94035
EPA Region: 09
County: SANTA CLARA
Event Code: Not reported
Inst. Control: Building, demolition, or excavation regulation
Actual Date: 06/30/2002
Complet. Date: 06/25/2002
Operable Unit: 07
Contaminated Media : Soil
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CA2170090078
Site ID: 0902734
Name: MOFFETT NAVAL AIR STATION
Action Name: RECORD OF DECISION
Address: MOFFETT FIELD NAS
MOFFETT FIELD, CA 94035
EPA Region: 09
County: SANTA CLARA
Event Code: Not reported
Inst. Control: Covenant
Actual Date: 06/30/2002
Complet. Date: 06/25/2002
Operable Unit: 07
Contaminated Media : Soil
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CA2170090078
Site ID: 0902734
Name: MOFFETT NAVAL AIR STATION
Action Name: ROD Amendment
Address: MOFFETT FIELD NAS
MOFFETT FIELD, CA 94035
EPA Region: 09
County: SANTA CLARA
Event Code: Not reported
Inst. Control: Base Use Plan Change
Actual Date: 08/16/2010
Complet. Date: 08/16/2010
Operable Unit: 04
Contaminated Media : Soil Gas
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

MOFFETT NAVAL AIR STATION (Continued) **1000228683**

ROD:
Full-text of USEPA Record of Decision(s) is available from EDR.

NPL **INTEL CORPORATION** **NPL** **1000203455**
Region **365 MIDDLEFIELD RD** **SEMS** **CAD061620217**
ESE **MOUNTAIN VIEW, CA 94043** **RCRA-SQG**
1/2-1 **US ENG CONTROLS**
3921 ft. **US INST CONTROL**
ROD
PRP
FINDS
ECHO
CA HAZNET

NPL:

EPA ID:	CAD061620217
Cerclis ID:	901482
EPA Region:	9
Federal:	N
Final Date:	1986-06-10 00:00:00
Site Score:	29.760000000000002
Latitude:	37.3962
Longitude:	-122.0566

Category Details:

NPL Status:	Currently on the Final NPL
Category Description:	Depth To Aquifer-> 100 Feet
Category Value:	260
NPL Status:	Currently on the Final NPL
Category Description:	Distance To Nearest Population-> 0 And <= 1/4 Mile
Category Value:	1000

Site Details:

Site Name:	INTEL CORP. (MOUNTAIN VIEW PLANT)
Site Status:	Final
Site Zip:	94040
Site City:	MOUNTAIN VIEW
Site State:	CA
Federal Site:	No
Site County:	SANTA CLARA
EPA Region:	09
Date Proposed:	10/15/84
Date Deleted:	Not reported
Date Finalized:	06/10/86

Substance Details:

NPL Status:	Currently on the Final NPL
Substance ID:	Not reported
Substance:	Not reported
CAS #:	Not reported
Pathway:	Not reported
Scoring:	Not reported
NPL Status:	Currently on the Final NPL

INTEL CORPORATION (Continued) **1000203455**

Substance ID: U043
Substance: VINYL CHLORIDE
CAS #: 75-01-4
Pathway: GROUND WATER PATHWAY
Scoring: 3

NPL Status: Currently on the Final NPL
Substance ID: U078
Substance: DICHLOROETHENE, 1,1-
CAS #: 75-35-4
Pathway: GROUND WATER PATHWAY
Scoring: 3

NPL Status: Currently on the Final NPL
Substance ID: U228
Substance: TRICHLOROETHYLENE (TCE)
CAS #: 79-01-6
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U239
Substance: XYLENE
CAS #: 1330-20-7
Pathway: GROUND WATER PATHWAY
Scoring: 2

Summary Details:

Conditions at proposal October 15, 1984): Intel Corp. manufactured semiconductors at a plant in Mountain View, Santa Clara County, California, between 1968 and 1981. At that time, the facility occupied 2 acres and was surrounded by residential areas, office buildings, and other semiconductor-manufacturing plants. Monitoring wells on the site are contaminated with trichloroethylene, xylene, vinyl chloride, and 1,1- and trans-1,2-dichloroethylene, according to analyses conducted by a consultant to Intel. Contamination is believed to have resulted from leaking underground solvent tanks. About 270,000 people depend on wells within 3 miles of the site as a source of drinking water. Since early 1982, Intel hasbeen pumping ground water and treating it by carbon adsorption. The company intends to implement additional cleanup activities, including the installation of a system to pump and treat contaminated ground water and excavation of soil beneath the underground storage tanks, which were previously removed. The company is working with the California Regional Water Quality Control Board CRWQCB) to determine the full extent of the contamination. This is one of 19 sites in the SouthBay Area of San Francisco. Facilities at these sites have used a variety of toxic chemicals, primarily chlorinated organic solvents, which contaminate a common ground water basin. Although these sites are listed separately, EPA intends to apply an area-wide approach to the problem as well as take specific action as necessary. Status June 10, 1986): Intel has removed approximately 4,600 cubic yards of contaminated soil and has installed four wells to pump and treat contaminated ground water. CRWQCB has issued Waste Discharge Requirements to the company. The requirements are the board s legal mechanism for regulating activities at facilities under its jurisdiction. On August 15, 1985, EPA issued a CERCLA Administrative Order on Consent to Intel Corp. s Mountain View Plant, as well as to Fairchild Camera s and Raytheon Corp. s Mountain View Plants. The order calls for the three companies to conduct a joint remedial

INTEL CORPORATION (Continued) **1000203455**

investigation/feasibilitystudy of the area to determine the type and extent of contamination and identify alternatives for remedial action.

Site Status Details:
- NPL Status: Final
- Proposed Date: 10/15/1984
- Final Date: 06/10/1986
- Deleted Date: Not reported

Narratives Details:
- NPL Name: INTEL CORP. (MOUNTAIN VIEW PLANT)
- City: MOUNTAIN VIEW
- State: CA

SEMS:
- Site ID: 0901482
- EPA ID: CAD061620217
- Cong District: 14,18
- FIPS Code: 06085
- Latitude: +37.396200
- Longitude: -122.056600
- FF: N
- NPL: Currently on the Final NPL
- Non NPL Status: Not reported

SEMS Detail:
- Region: 09
- Site ID: 0901482
- EPA ID: CAD061620217
- Site Name: INTEL CORP. (MOUNTAIN VIEW PLANT)
- NPL: F
- FF: N
- OU: 00
- Action Code: RS
- Action Name: RV ASSESS
- SEQ: 2
- Start Date: 1991-03-25 05:00:00
- Finish Date: 3/25/1991 5:00:00 AM
- Qual: Not reported
- Current Action Lead: EPA Perf

- Region: 09
- Site ID: 0901482
- EPA ID: CAD061620217
- Site Name: INTEL CORP. (MOUNTAIN VIEW PLANT)
- NPL: F
- FF: N
- OU: 00
- Action Code: NP
- Action Name: PROPOSED
- SEQ: 1
- Start Date: 1984-10-15 05:00:00
- Finish Date: 10/15/1984 5:00:00 AM
- Qual: Not reported
- Current Action Lead: EPA Perf

INTEL CORPORATION (Continued) **1000203455**

Region:	09
Site ID:	0901482
EPA ID:	CAD061620217
Site Name:	INTEL CORP. (MOUNTAIN VIEW PLANT)
NPL:	F
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1984-07-01 05:00:00
Finish Date:	7/1/1984 5:00:00 AM
Qual:	H
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0901482
EPA ID:	CAD061620217
Site Name:	INTEL CORP. (MOUNTAIN VIEW PLANT)
NPL:	F
FF:	N
OU:	00
Action Code:	HR
Action Name:	HAZRANK
SEQ:	1
Start Date:	1984-08-01 05:00:00
Finish Date:	8/1/1984 5:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0901482
EPA ID:	CAD061620217
Site Name:	INTEL CORP. (MOUNTAIN VIEW PLANT)
NPL:	F
FF:	N
OU:	00
Action Code:	CM
Action Name:	PCOR
SEQ:	1
Start Date:	1999-08-24 04:00:00
Finish Date:	8/24/1999 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0901482
EPA ID:	CAD061620217
Site Name:	INTEL CORP. (MOUNTAIN VIEW 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:	Not reported

INTEL CORPORATION (Continued) **1000203455**

Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901482
EPA ID:	CAD061620217
Site Name:	INTEL CORP. (MOUNTAIN VIEW PLANT)
NPL:	F
FF:	N
OU:	01
Action Code:	CO
Action Name:	RI/FS
SEQ:	1
Start Date:	1985-06-09 05:00:00
Finish Date:	8/15/1985 5:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901482
EPA ID:	CAD061620217
Site Name:	INTEL CORP. (MOUNTAIN VIEW PLANT)
NPL:	F
FF:	N
OU:	01
Action Code:	RO
Action Name:	ROD
SEQ:	1
Start Date:	1989-06-09 04:00:00
Finish Date:	6/9/1989 4:00:00 AM
Qual:	R
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901482
EPA ID:	CAD061620217
Site Name:	INTEL CORP. (MOUNTAIN VIEW PLANT)
NPL:	F
FF:	N
OU:	00
Action Code:	NF
Action Name:	NPL FINL
SEQ:	1
Start Date:	1986-06-10 04:00:00
Finish Date:	6/10/1986 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901482
EPA ID:	CAD061620217
Site Name:	INTEL CORP. (MOUNTAIN VIEW PLANT)
NPL:	F
FF:	N
OU:	00
Action Code:	FE
Action Name:	5 YEAR

INTEL CORPORATION (Continued) **1000203455**

SEQ: 3
Start Date: 2013-01-30 05:00:00
Finish Date: 9/29/2014 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0901482
EPA ID: CAD061620217
Site Name: INTEL CORP. (MOUNTAIN VIEW PLANT)
NPL: F
FF: N
OU: 00
Action Code: FE
Action Name: 5 YEAR
SEQ: 2
Start Date: 2009-09-30 04:00:00
Finish Date: 9/30/2009 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0901482
EPA ID: CAD061620217
Site Name: INTEL CORP. (MOUNTAIN VIEW PLANT)
NPL: F
FF: N
OU: 00
Action Code: FE
Action Name: 5 YEAR
SEQ: 1
Start Date: 2003-04-30 04:00:00
Finish Date: 9/30/2004 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0901482
EPA ID: CAD061620217
Site Name: INTEL CORP. (MOUNTAIN VIEW PLANT)
NPL: F
FF: N
OU: 00
Action Code: RS
Action Name: RV ASSESS
SEQ: 1
Start Date: 1990-08-15 04:00:00
Finish Date: 8/15/1990 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0901482
EPA ID: CAD061620217
Site Name: INTEL CORP. (MOUNTAIN VIEW PLANT)
NPL: F
FF: N

INTEL CORPORATION (Continued) **1000203455**

OU:	00
Action Code:	CR
Action Name:	CI
SEQ:	1
Start Date:	1986-11-30 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901482
EPA ID:	CAD061620217
Site Name:	INTEL CORP. (MOUNTAIN VIEW PLANT)
NPL:	F
FF:	N
OU:	00
Action Code:	SI
Action Name:	SI
SEQ:	1
Start Date:	1984-08-01 05:00:00
Finish Date:	8/1/1984 5:00:00 AM
Qual:	H
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901482
EPA ID:	CAD061620217
Site Name:	INTEL CORP. (MOUNTAIN VIEW PLANT)
NPL:	F
FF:	N
OU:	00
Action Code:	FP
Action Name:	FPA
SEQ:	1
Start Date:	1985-05-29 05:00:00
Finish Date:	7/1/1985 5:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901482
EPA ID:	CAD061620217
Site Name:	INTEL CORP. (MOUNTAIN VIEW PLANT)
NPL:	F
FF:	N
OU:	01
Action Code:	BF
Action Name:	PRP RA
SEQ:	2
Start Date:	1996-12-11 05:00:00
Finish Date:	3/16/2000 5:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Ovrsght
Region:	09
Site ID:	0901482
EPA ID:	CAD061620217

INTEL CORPORATION (Continued) **1000203455**

Site Name:	INTEL CORP. (MOUNTAIN VIEW PLANT)
NPL:	F
FF:	N
OU:	01
Action Code:	BE
Action Name:	PRP RD
SEQ:	2
Start Date:	1991-05-14 04:00:00
Finish Date:	12/11/1996 5:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Ovrsght

Region:	09
Site ID:	0901482
EPA ID:	CAD061620217
Site Name:	INTEL CORP. (MOUNTAIN VIEW PLANT)
NPL:	F
FF:	N
OU:	01
Action Code:	NK
Action Name:	PRP FS
SEQ:	1
Start Date:	2007-09-27 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Ovrsght

Region:	09
Site ID:	0901482
EPA ID:	CAD061620217
Site Name:	INTEL CORP. (MOUNTAIN VIEW PLANT)
NPL:	F
FF:	N
OU:	01
Action Code:	BF
Action Name:	PRP RA
SEQ:	3
Start Date:	2012-11-16 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Ovrsght

Region:	09
Site ID:	0901482
EPA ID:	CAD061620217
Site Name:	INTEL CORP. (MOUNTAIN VIEW PLANT)
NPL:	F
FF:	N
OU:	01
Action Code:	BE
Action Name:	PRP RD
SEQ:	3
Start Date:	2011-09-28 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Ovrsght

INTEL CORPORATION (Continued) **1000203455**

Region:	09
Site ID:	0901482
EPA ID:	CAD061620217
Site Name:	INTEL CORP. (MOUNTAIN VIEW PLANT)
NPL:	F
FF:	N
OU:	01
Action Code:	BD
Action Name:	PRP RI/FS
SEQ:	2
Start Date:	2006-06-16 04:00:00
Finish Date:	8/16/2010 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Ovrsght

Region:	09
Site ID:	0901482
EPA ID:	CAD061620217
Site Name:	INTEL CORP. (MOUNTAIN VIEW PLANT)
NPL:	F
FF:	N
OU:	01
Action Code:	BD
Action Name:	PRP RI/FS
SEQ:	1
Start Date:	1985-08-15 05:00:00
Finish Date:	6/9/1989 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Ovrsght

Region:	09
Site ID:	0901482
EPA ID:	CAD061620217
Site Name:	INTEL CORP. (MOUNTAIN VIEW PLANT)
NPL:	F
FF:	N
OU:	02
Action Code:	BE
Action Name:	PRP RD
SEQ:	1
Start Date:	1991-05-14 04:00:00
Finish Date:	4/17/1995 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Ovrsght

Region:	09
Site ID:	0901482
EPA ID:	CAD061620217
Site Name:	INTEL CORP. (MOUNTAIN VIEW PLANT)
NPL:	F
FF:	N
OU:	02
Action Code:	ME
Action Name:	PRP LR
SEQ:	2
Start Date:	2001-09-28 04:00:00
Finish Date:	Not reported

INTEL CORPORATION (Continued) **1000203455**

Qual:	Not reported
Current Action Lead:	EPA Ovrsght
Region:	09
Site ID:	0901482
EPA ID:	CAD061620217
Site Name:	INTEL CORP. (MOUNTAIN VIEW PLANT)
NPL:	F
FF:	N
OU:	01
Action Code:	ME
Action Name:	PRP LR
SEQ:	1
Start Date:	2000-03-16 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Ovrsght
Region:	09
Site ID:	0901482
EPA ID:	CAD061620217
Site Name:	INTEL CORP. (MOUNTAIN VIEW PLANT)
NPL:	F
FF:	N
OU:	02
Action Code:	BF
Action Name:	PRP RA
SEQ:	1
Start Date:	1995-04-17 04:00:00
Finish Date:	9/28/2001 4:00:00 AM
Qual:	IR
Current Action Lead:	EPA Ovrsght
Region:	09
Site ID:	0901482
EPA ID:	CAD061620217
Site Name:	INTEL CORP. (MOUNTAIN VIEW PLANT)
NPL:	F
FF:	N
OU:	00
Action Code:	MA
Action Name:	ST COOP
SEQ:	2
Start Date:	1989-09-15 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Ovrsght
Region:	09
Site ID:	0901482
EPA ID:	CAD061620217
Site Name:	INTEL CORP. (MOUNTAIN VIEW PLANT)
NPL:	F
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY

INTEL CORPORATION (Continued) **1000203455**

SEQ: 1
Start Date: 1981-07-01 04:00:00
Finish Date: 7/1/1981 4:00:00 AM
Qual: S
Current Action Lead: St Perf

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: INTEL CORPORATION
Facility address: 365 MIDDLEFIELD RD
MOUNTAIN VIEW, CA 94040
EPA ID: CAD061620217
Mailing address: 3065 BOWERS AVE
SANTA CLARA, CA 95051
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: INTEL CORPORATION (PRIVATE CORPORATION)
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

INTEL CORPORATION (Continued) **1000203455**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 07/28/1980
Site name: INTEL CORPORATION
Classification: Large Quantity Generator

Violation Status: No violations found

US ENG CONTROLS:
EPA ID: CAD061620217
Site ID: 0901482
Name: INTEL CORP. (MOUNTAIN VIEW PLANT)
Address: 365 E MIDDLEFIELD RD
MOUNTAIN VIEW, CA 94040
EPA Region: 09
County: SANTA CLARA
Event Code: Not reported
Actual Date: 08/25/2010
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: Explanation Of Significant Differences
Action Completion date: 04/16/1996
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Carbon Adsorption
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/09/1989
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Air Stripping
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

INTEL CORPORATION (Continued) **1000203455**

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/09/1989
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Carbon Adsorption
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/09/1989
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Discharge
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/09/1989
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Extraction
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/09/1989
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Hydraulic Control
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/09/1989
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Seal well
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/09/1989
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Aeration
Contact Name: Not reported

INTEL CORPORATION (Continued) **1000203455**

Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/09/1989
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Carbon Adsorption
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/09/1989
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Dewatering
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/09/1989
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Excavation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/09/1989
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Soil Vapor Extraction (in-situ)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/09/1989
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Treatment, (N.O.S.)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: ROD Amendment
Action Completion date: 08/16/2010
Operable Unit: 01

INTEL CORPORATION (Continued) **1000203455**

Contaminated Media : Soil Gas
Engineering Control: Enhanced Interior Ventilation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: ROD Amendment
Action Completion date: 08/16/2010
Operable Unit: 01
Contaminated Media : Soil Gas
Engineering Control: Indoor Air Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: ROD Amendment
Action Completion date: 08/16/2010
Operable Unit: 01
Contaminated Media : Soil Gas
Engineering Control: Passive Ventilation System
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: ROD Amendment
Action Completion date: 08/16/2010
Operable Unit: 01
Contaminated Media : Soil Gas
Engineering Control: Sealing (seal cracks in foundations etc.)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: ROD Amendment
Action Completion date: 08/16/2010
Operable Unit: 01
Contaminated Media : Soil Gas
Engineering Control: Sub-Membrane Depressurization
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: ROD Amendment
Action Completion date: 08/16/2010
Operable Unit: 01
Contaminated Media : Soil Gas
Engineering Control: Sub-Slab Depressurization System
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001

INTEL CORPORATION (Continued) **1000203455**

Action Name: ROD Amendment
Action Completion date: 08/16/2010
Operable Unit: 01
Contaminated Media : Soil Gas
Engineering Control: Vapor Barrier
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

US INST CONTROL:
EPA ID: CAD061620217
Site ID: 0901482
Name: INTEL CORP. (MOUNTAIN VIEW PLANT)
Action Name: ROD Amendment
Address: 365 E MIDDLEFIELD RD
MOUNTAIN VIEW, CA 94040
EPA Region: 09
County: SANTA CLARA
Event Code: Not reported
Inst. Control: Building, Demolition, or Excavation Regulation
Actual Date: 08/25/2010
Complet. Date: 08/16/2010
Operable Unit: 01
Contaminated Media : Soil Gas
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CAD061620217
Site ID: 0901482
Name: INTEL CORP. (MOUNTAIN VIEW PLANT)
Action Name: ROD Amendment
Address: 365 E MIDDLEFIELD RD
MOUNTAIN VIEW, CA 94040
EPA Region: 09
County: SANTA CLARA
Event Code: Not reported
Inst. Control: Covenant
Actual Date: 08/25/2010
Complet. Date: 08/16/2010
Operable Unit: 01
Contaminated Media : Soil Gas
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CAD061620217
Site ID: 0901482
Name: INTEL CORP. (MOUNTAIN VIEW PLANT)
Action Name: ROD Amendment
Address: 365 E MIDDLEFIELD RD
MOUNTAIN VIEW, CA 94040
EPA Region: 09
County: SANTA CLARA
Event Code: Not reported
Inst. Control: Deed Notices

INTEL CORPORATION (Continued) **1000203455**

Actual Date: 08/25/2010
Complet. Date: 08/16/2010
Operable Unit: 01
Contaminated Media : Soil Gas
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CAD061620217
Site ID: 0901482
Name: INTEL CORP. (MOUNTAIN VIEW PLANT)
Action Name: ROD Amendment
Address: 365 E MIDDLEFIELD RD
MOUNTAIN VIEW, CA 94040
EPA Region: 09
County: SANTA CLARA
Event Code: Not reported
Inst. Control: Easement
Actual Date: 08/25/2010
Complet. Date: 08/16/2010
Operable Unit: 01
Contaminated Media : Soil Gas
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CAD061620217
Site ID: 0901482
Name: INTEL CORP. (MOUNTAIN VIEW PLANT)
Action Name: ROD Amendment
Address: 365 E MIDDLEFIELD RD
MOUNTAIN VIEW, CA 94040
EPA Region: 09
County: SANTA CLARA
Event Code: Not reported
Inst. Control: Notices to State Regulators Before Changes in Land Ownership
Actual Date: 08/25/2010
Complet. Date: 08/16/2010
Operable Unit: 01
Contaminated Media : Soil Gas
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

ROD:
Full-text of USEPA Record of Decision(s) is available from EDR.

PRP:
PRP Name: AIR PRODUCTS & CHEMICALS, INC.
BRE PROPERTIES
FAIRCHILD CO.
FAIRCHILD CO.
GENERAL INSTRUMENT CO.
GOLDEN GATE INVESTMENTS
GTE CORP.
INTEL CORP.

INTEL CORPORATION (Continued) **1000203455**

INTEL CORP.
INTEL CORP.
INTEL CORP.
INTEL CORP.
JACK DYMOND ASSOCIATES
MOFFETT FIELD NAS
NASA AMES
NEC ELECTRONICS, INC.
RAYTHEON CO.
RAYTHEON CO.
RAYTHEON CO.
RENAULT AND HANDLEY
SILTEC CORP.
SOBRATO DEVELOPMENT CO.
SUMMIT CORP. OF AMERICA
TECHNITRON

FINDS:

Registry ID: 110002652905

Environmental Interest/Information System

California Department of Toxic Substances Control EnviroStor System (DTSC-EnviroStor) is an online search and Geographic Information System (GIS) tool for identifying sites that have known contamination or sites for which there may be reasons to investigate further. The EnviroStor 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.

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

SUPERFUND NPL

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000203455
Registry ID: 110002652905
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002652905

INTEL CORPORATION (Continued) **1000203455**

HAZNET:

Facility Name:	INTEL CORPORATION
envid:	1000203455
Year:	1998
GEPAID:	CAD061620217
Contact:	INTEL CORPORATION
Telephone:	4087653375
Mailing Name:	Not reported
Mailing Address:	2200 MISSION COLLEGE BLVD MP1 106
Mailing City,St,Zip:	SANTA CLARA, CA 950528119
Gen County:	Not reported
TSD EPA ID:	CAD009452657
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Recycler
Tons:	15.1704
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

envid:	1000203455
Year:	1998
GEPAID:	CAD061620217
Contact:	INTEL CORPORATION
Telephone:	4087653375
Mailing Name:	Not reported
Mailing Address:	2200 MISSION COLLEGE BLVD MP1 106
Mailing City,St,Zip:	SANTA CLARA, CA 950528119
Gen County:	Not reported
TSD EPA ID:	CAD009452657
TSD County:	Not reported
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Treatment, Incineration
Tons:	5.2000
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

envid:	1000203455
Year:	1998
GEPAID:	CAD061620217
Contact:	INTEL CORPORATION
Telephone:	4087653375
Mailing Name:	Not reported
Mailing Address:	2200 MISSION COLLEGE BLVD MP1 106
Mailing City,St,Zip:	SANTA CLARA, CA 950528119
Gen County:	Not reported
TSD EPA ID:	CAD009452657
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Disposal, Land Fill
Tons:	75.8520
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

NPL **EMBARCADERO REALTY SERVICES LP** **NPL** **1000201854**
Region **1300 TERRA BELLA AVENUE** **SEMS** **CAD009111444**
West **MOUNTAIN VIEW, CA 94043** **CORRACTS**
< 1/8 **US ENG CONTROLS**
40 ft. **RCRA NonGen / NLR**
ROD
FINDS

NPL:

EPA ID:	CAD009111444
Cerclis ID:	901134
EPA Region:	9
Federal:	N
Final Date:	1987-07-22 00:00:00
Site Score:	35.350000000000001
Latitude:	37.410800000000002
Longitude:	-122.0797

Category Details:

NPL Status:	Currently on the Final NPL
Category Description:	Depth To Aquifer-> 10 And <= 25 Feet
Category Value:	25

NPL Status:	Currently on the Final NPL
Category Description:	Distance To Nearest Population-> 0 And <= 1/4 Mile
Category Value:	10

Site Details:

Site Name:	TELEDYNE SEMICONDUCTOR
Site Status:	Final
Site Zip:	94043
Site City:	MOUNTAIN VIEW
Site State:	CA
Federal Site:	No
Site County:	SANTA CLARA
EPA Region:	09
Date Proposed:	10/15/84
Date Deleted:	Not reported
Date Finalized:	07/22/87

Substance Details:

NPL Status:	Currently on the Final NPL
Substance ID:	Not reported
Substance:	Not reported
CAS #:	Not reported
Pathway:	Not reported
Scoring:	Not reported

NPL Status:	Currently on the Final NPL
Substance ID:	A091
Substance:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE
CAS #:	76-13-1
Pathway:	GROUND WATER PATHWAY
Scoring:	2

NPL Status:	Currently on the Final NPL
Substance ID:	U071
Substance:	DICHLOROBENZENE, 1,3-

EMBARCADERO REALTY SERVICES LP (Continued) **1000201854**

CAS #: 541-73-1
Pathway: GROUND WATER PATHWAY
Scoring: 4

NPL Status: Currently on the Final NPL
Substance ID: U079
Substance: TRANS-DICHLOROETHYLENE, 1,2-
CAS #: 156-60-5
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U210
Substance: TETRACHLOROETHENE
CAS #: 127-18-4
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U228
Substance: TRICHLOROETHYLENE (TCE)
CAS #: 79-01-6
Pathway: GROUND WATER PATHWAY
Scoring: 2

Summary Details:

Conditions at proposal October 15, 1984): Teledyne Semiconductor has manufactured semiconductors on a 1-acre site in Mountain View, Santa Clara County, California, since 1962. In December l982, Teledyne reported to the California Regional Water Quality Control Board CRWQCB) that soil and ground water near an underground storage tank were contaminated with solvents, including trichloroethylene. An investigation in June 1984 revealed that the contaminants had migrated to the northand affected approximately 50 private domestic wells. Local agencies and the company have provided alternative sources of drinking water for the affected residences. About 116,000 people depend on wells within 3 miles of the site as a source of drinking water. The company is working with CRWQCB to determine the extent of the contamination and to develop interim hydraulic controls to prevent further migration of the contaminants. The facility received Interim Status underSubtitle C of the Resource Conservation and Recovery Act RCRA) when the company filed Part A of a permit application. This is one of 19 sites in the South Bay Area of San Francisco. Facilities at these sites have used a variety of toxicchemicals, primarily chlorinated organic solvents, which contaminate a common ground water basin. Although these sites are listed separately, EPA intends to apply an area-wide approach to the problem as well as take specific action as necessary. Status February 1986): CRWQCB, in conjunction with EPA and the California Department of Health Services, is considering various response actions at the site. This site remains in proposed status until EPA implements the appropriate elements of its final policy for placing RCRA-related sites on the NPL and then applies the policy to this site. Status July 22, 1987): Subsequent investigation revealed that this site is not subject to the Subtitle C permitting requirements of RCRA. Its score on the Ha ard Ranking System, which EPA uses to evaluate sites for the NPL, is above the cutoff point of 28.50, and EPA received no information that prevents placing the site on the NPL. Therefore, it is being placed on the NPL. Teledyne is planning on pumping the contaminated ground water in the upper aquifer to the surface for

EMBARCADERO REALTY SERVICES LP (Continued) **1000201854**

subsequent treatment.

Site Status Details:
NPL Status: Final
Proposed Date: 10/15/1984
Final Date: 07/22/1987
Deleted Date: Not reported

Narratives Details:
NPL Name: TELEDYNE SEMICONDUCTOR
City: MOUNTAIN VIEW
State: CA

SEMS:
Site ID: 0901134
EPA ID: CAD009111444
Cong District: 14,18
FIPS Code: 06085
Latitude: +37.410800
Longitude: -122.079700
FF: N
NPL: Currently on the Final NPL
Non NPL Status: Not reported

SEMS Detail:
Region: 09
Site ID: 0901134
EPA ID: CAD009111444
Site Name: TELEDYNE SEMICONDUCTOR
NPL: F
FF: N
OU: 00
Action Code: RS
Action Name: RV ASSESS
SEQ: 1
Start Date: 1992-12-15 05:00:00
Finish Date: 12/15/1992 5:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0901134
EPA ID: CAD009111444
Site Name: TELEDYNE SEMICONDUCTOR
NPL: F
FF: N
OU: 00
Action Code: AR
Action Name: ADMIN REC
SEQ: 1
Start Date: 1991-03-22 05:00:00
Finish Date: 3/22/1991 5:00:00 AM
Qual: E
Current Action Lead: EPA Perf

Region: 09

EMBARCADERO REALTY SERVICES LP (Continued) **1000201854**

Site ID:	0901134
EPA ID:	CAD009111444
Site Name:	TELEDYNE SEMICONDUCTOR
NPL:	F
FF:	N
OU:	00
Action Code:	NF
Action Name:	NPL FINL
SEQ:	1
Start Date:	1987-07-22 04:00:00
Finish Date:	7/22/1987 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0901134
EPA ID:	CAD009111444
Site Name:	TELEDYNE SEMICONDUCTOR
NPL:	F
FF:	N
OU:	00
Action Code:	FE
Action Name:	5 YEAR
SEQ:	1
Start Date:	1999-09-29 04:00:00
Finish Date:	9/29/1999 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0901134
EPA ID:	CAD009111444
Site Name:	TELEDYNE SEMICONDUCTOR
NPL:	F
FF:	N
OU:	00
Action Code:	FE
Action Name:	5 YEAR
SEQ:	6
Start Date:	2018-11-15 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0901134
EPA ID:	CAD009111444
Site Name:	TELEDYNE SEMICONDUCTOR
NPL:	F
FF:	N
OU:	00
Action Code:	CR
Action Name:	CI
SEQ:	1
Start Date:	2017-07-14 04:00:00
Finish Date:	Not reported
Qual:	Not reported

EMBARCADERO REALTY SERVICES LP (Continued) **1000201854**

Current Action Lead: EPA Perf

Region: 09
Site ID: 0901134
EPA ID: CAD009111444
Site Name: TELEDYNE SEMICONDUCTOR
NPL: F
FF: N
OU: 00
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: 1984-07-01 05:00:00
Finish Date: 7/1/1984 5:00:00 AM
Qual: H
Current Action Lead: EPA Perf

Region: 09
Site ID: 0901134
EPA ID: CAD009111444
Site Name: TELEDYNE SEMICONDUCTOR
NPL: F
FF: N
OU: 01
Action Code: RO
Action Name: ROD
SEQ: 1
Start Date: 1991-03-22 05:00:00
Finish Date: 3/22/1991 5:00:00 AM
Qual: R
Current Action Lead: EPA Perf

Region: 09
Site ID: 0901134
EPA ID: CAD009111444
Site Name: TELEDYNE SEMICONDUCTOR
NPL: F
FF: N
OU: 00
Action Code: FE
Action Name: 5 YEAR
SEQ: 4
Start Date: 2013-08-20 04:00:00
Finish Date: 9/23/2014 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0901134
EPA ID: CAD009111444
Site Name: TELEDYNE SEMICONDUCTOR
NPL: F
FF: N
OU: 00
Action Code: FE
Action Name: 5 YEAR
SEQ: 3

EMBARCADERO REALTY SERVICES LP (Continued) **1000201854**

Start Date: 2009-09-30 04:00:00
Finish Date: 9/30/2009 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0901134
EPA ID: CAD009111444
Site Name: TELEDYNE SEMICONDUCTOR
NPL: F
FF: N
OU: 00
Action Code: RS
Action Name: RV ASSESS
SEQ: 2
Start Date: 1990-06-18 04:00:00
Finish Date: 6/18/1990 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0901134
EPA ID: CAD009111444
Site Name: TELEDYNE SEMICONDUCTOR
NPL: F
FF: N
OU: 00
Action Code: NP
Action Name: PROPOSED
SEQ: 1
Start Date: 1984-10-15 05:00:00
Finish Date: 10/15/1984 5:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0901134
EPA ID: CAD009111444
Site Name: TELEDYNE SEMICONDUCTOR
NPL: F
FF: N
OU: 00
Action Code: HR
Action Name: HAZRANK
SEQ: 1
Start Date: 1984-08-01 05:00:00
Finish Date: 8/1/1984 5:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0901134
EPA ID: CAD009111444
Site Name: TELEDYNE SEMICONDUCTOR
NPL: F
FF: N
OU: 00

EMBARCADERO REALTY SERVICES LP (Continued) **1000201854**

Action Code:	FE
Action Name:	5 YEAR
SEQ:	2
Start Date:	2003-12-31 05:00:00
Finish Date:	9/30/2004 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901134
EPA ID:	CAD009111444
Site Name:	TELEDYNE SEMICONDUCTOR
NPL:	F
FF:	N
OU:	00
Action Code:	SI
Action Name:	SI
SEQ:	1
Start Date:	1984-08-01 05:00:00
Finish Date:	8/1/1984 5:00:00 AM
Qual:	H
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901134
EPA ID:	CAD009111444
Site Name:	TELEDYNE SEMICONDUCTOR
NPL:	F
FF:	N
OU:	00
Action Code:	CM
Action Name:	PCOR
SEQ:	1
Start Date:	1992-03-31 05:00:00
Finish Date:	3/31/1992 5:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901134
EPA ID:	CAD009111444
Site Name:	TELEDYNE SEMICONDUCTOR
NPL:	F
FF:	N
OU:	01
Action Code:	BD
Action Name:	PRP RI/FS
SEQ:	1
Start Date:	1989-01-19 05:00:00
Finish Date:	3/22/1991 5:00:00 AM
Qual:	Not reported
Current Action Lead:	St Ovrsght
Region:	09
Site ID:	0901134
EPA ID:	CAD009111444
Site Name:	TELEDYNE SEMICONDUCTOR

EMBARCADERO REALTY SERVICES LP (Continued) **1000201854**

NPL:	F
FF:	N
OU:	00
Action Code:	MA
Action Name:	ST COOP
SEQ:	1
Start Date:	1989-09-15 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	St Ovrsght
Region:	09
Site ID:	0901134
EPA ID:	CAD009111444
Site Name:	TELEDYNE SEMICONDUCTOR
NPL:	F
FF:	N
OU:	01
Action Code:	BE
Action Name:	PRP RD
SEQ:	1
Start Date:	1991-03-22 05:00:00
Finish Date:	3/22/1991 5:00:00 AM
Qual:	Not reported
Current Action Lead:	St Ovrsght
Region:	09
Site ID:	0901134
EPA ID:	CAD009111444
Site Name:	TELEDYNE SEMICONDUCTOR
NPL:	F
FF:	N
OU:	01
Action Code:	BF
Action Name:	PRP RA
SEQ:	1
Start Date:	1991-03-22 05:00:00
Finish Date:	3/22/1991 5:00:00 AM
Qual:	Not reported
Current Action Lead:	St Ovrsght
Region:	09
Site ID:	0901134
EPA ID:	CAD009111444
Site Name:	TELEDYNE SEMICONDUCTOR
NPL:	F
FF:	N
OU:	01
Action Code:	OM
Action Name:	OM
SEQ:	2
Start Date:	1992-03-31 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	St Ovrsght
Region:	09

EMBARCADERO REALTY SERVICES LP (Continued) **1000201854**

Site ID:	0901134
EPA ID:	CAD009111444
Site Name:	TELEDYNE SEMICONDUCTOR
NPL:	F
FF:	N
OU:	01
Action Code:	OM
Action Name:	OM
SEQ:	1
Start Date:	1991-03-22 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	St Ovrsght

Region:	09
Site ID:	0901134
EPA ID:	CAD009111444
Site Name:	TELEDYNE SEMICONDUCTOR
NPL:	F
FF:	N
OU:	01
Action Code:	NK
Action Name:	PRP FS
SEQ:	1
Start Date:	2012-08-22 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Ovrsght

Region:	09
Site ID:	0901134
EPA ID:	CAD009111444
Site Name:	TELEDYNE SEMICONDUCTOR
NPL:	F
FF:	N
OU:	01
Action Code:	NA
Action Name:	PRP RI
SEQ:	1
Start Date:	2009-10-05 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Ovrsght

Region:	09
Site ID:	0901134
EPA ID:	CAD009111444
Site Name:	TELEDYNE SEMICONDUCTOR
NPL:	F
FF:	N
OU:	01
Action Code:	ED
Action Name:	R/H ASMT
SEQ:	1
Start Date:	1991-06-15 04:00:00
Finish Date:	6/15/1991 4:00:00 AM
Qual:	Not reported

EMBARCADERO REALTY SERVICES LP (Continued) **1000201854**

Current Action Lead: EPA Ovrsght

Region: 09
Site ID: 0901134
EPA ID: CAD009111444
Site Name: TELEDYNE SEMICONDUCTOR
NPL: F
FF: N
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1980-08-01 04:00:00
Finish Date: 8/1/1980 4:00:00 AM
Qual: Not reported
Current Action Lead: St Perf

CORRACTS:

EPA ID: CAD009111444
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 20001228
Action: CA750YE - Migration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified
NAICS Code(s): Not reported
Original schedule date: 20001228
Schedule end date: Not reported

EPA ID: CAD009111444
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 20001228
Action: CA750YE - Migration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009111444
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 20001228
Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009111444
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 20001228
Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified
NAICS Code(s): Not reported
Original schedule date: 20001228

EMBARCADERO REALTY SERVICES LP (Continued) **1000201854**

Schedule end date: Not reported

EPA ID: CAD009111444
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19970926
Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009111444
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19970926
Action: CA750YE - Migration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009111444
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19970926
Action: CA225NR - Stabilization Measures Evaluation, This facility is, not amenable to stabilization activity at the, present time for reasons other than (1) it appears to be technically, infeasible or inappropriate (NF) or (2) there is a lack of technical, information (IN). Reasons for this conclusion may be the status of, closure at the facility, the degree of risk, timing considerations, the status of corrective action work at the facility, or other, administrative considerations
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009111444
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19970926
Action: CA210 - CA Responsibility Referred To A Non-RCRA Federal Authority
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009111444
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19941007
Action: CA075ME - CA Prioritization, Facility or area was assigned a medium corrective action priority
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EMBARCADERO REALTY SERVICES LP (Continued) **1000201854**

EPA ID: CAD009111444
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19941007
Action: CA210SF - CA Responsibility Referred To A Non-RCRA Federal Authority, Corrective Action at the facility or area referred to CERCLA
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009111444
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19910401
Action: CA550RC
NAICS Code(s): Not reported
Original schedule date: 19910401
Schedule end date: Not reported

EPA ID: CAD009111444
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19910401
Action: CA550 - Certification Of Remedy Completion Or Construction Completion
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009111444
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19910222
Action: CA650 - Stabilization Construction Completed
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009111444
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19910222
Action: CA400 - Date For Remedy Selection (CM Imposed)
NAICS Code(s): Not reported
Original schedule date: 19910222
Schedule end date: Not reported

EPA ID: CAD009111444
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19910222
Action: CA200 - RFI Approved
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009111444
EPA Region: 9

EMBARCADERO REALTY SERVICES LP (Continued) **1000201854**

Area Name: ENTIRE FACILITY
Actual Date: 19910222
Action: CA400 - Date For Remedy Selection (CM Imposed)
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009111444
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19910222
Action: CA350 - CMS Approved
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009111444
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19890501
Action: CA150 - RFI Workplan Approved
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009111444
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19890501
Action: CA300 - CMS Workplan Approved
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009111444
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19860219
Action: CA600SR - Stabilization Measures Implemented, Primary measure is source removal and/or treatment
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009111444
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19860219
Action: CA600GW - Stabilization Measures Implemented, Groundwater extraction and treatment
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009111444
EPA Region: 9
Area Name: ENTIRE FACILITY

EMBARCADERO REALTY SERVICES LP (Continued) **1000201854**

Actual Date: 19860219
Action: CA100 - RFI Imposition
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009111444
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19860219
Action: CA250 - CMS Imposition
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009111444
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19840801
Action: CA049SI
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009111444
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19840801
Action: CA050 - RFA Completed
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009111444
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19840701
Action: CA029SF
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009111444
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19840701
Action: CA049PA
NAICS Code(s): Not reported
Original schedule date: 19890215
Schedule end date: Not reported

EPA ID: CAD009111444
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19840701
Action: CA075HI - CA Prioritization, Facility or area was assigned a high corrective action priority

EMBARCADERO REALTY SERVICES LP (Continued) **1000201854**

NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD009111444
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19840701
Action: CA074HI
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

US ENG CONTROLS:
EPA ID: CAD009111444
Site ID: 0901134
Name: TELEDYNE SEMICONDUCTOR
Address: 1300 TERRA BELLA AVE
MOUNTAIN VIEW, CA 94043
EPA Region: 09
County: SANTA CLARA
Event Code: Not reported
Actual Date: 03/31/1991
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 03/22/1991
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Air Stripping
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 03/22/1991
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Carbon Adsorption
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 03/22/1991
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Discharge
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

EMBARCADERO REALTY SERVICES LP (Continued) **1000201854**

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 03/22/1991
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Extraction
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 03/22/1991
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Operations & Maintenance (O&M)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 03/22/1991
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Publicly Owned Treatment Works (POTW)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

RCRA NonGen / NLR:
Date form received by agency: 04/03/2001
Facility name: MICROCHIP TECHNOLOGY INC
Facility address: 1300 TERRA BELLA AVE
MOUNTAIN VIEW, CA 94043-1836
EPA ID: CAD009111444
Mailing address: 3400 GARRETT DR
SANTA CLARA, CA 95054
Contact: ALAN P ABBOTT
Contact address: 3400 GARRETT DR
SANTA CLARA, CA 95054
Contact country: US
Contact telephone: 480-792-7444
Contact email: Not reported
EPA Region: 09
Land type: Private
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: TELEDYNE, INC.
Owner/operator address: 1901 AVENUE OF THE STARS
CITY NOT REPORTED, CA 99999
Owner/operator country: Not reported
Owner/operator telephone: 213-277-3311

EMBARCADERO REALTY SERVICES LP (Continued) **1000201854**

Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: MICROCHIP TECHNOLOGY INC
Owner/operator address: 2355 W CHANDLER BLVD
CHANDLER, AZ 85224
Owner/operator country: Not reported
Owner/operator telephone: 480-792-7200
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D007

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. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Historical Generators:
Date form received by agency: 09/01/1996
Site name: MICROCHIP TECHNOLOGY INC
Classification: Large Quantity Generator

Date form received by agency: 02/21/1992
Site name: TELEDYNE COMPONENTS
Classification: Small Quantity Generator

Date form received by agency: 03/30/1990
Site name: TELEDYNE COMPONENTS
Classification: Large Quantity Generator

Corrective Action Summary:
Event date: 07/01/1984
Event: NCAPS RANKING/PRIORITY

Event date: 07/01/1984
Event: LEAD AGENCY DETERMINATION

Event date: 07/01/1984
Event: CA PRIORITIZATION-HIGH CA PRIORITY

Event date: 07/01/1984
Event: PA OR CERCLA INSPECTION

Event date: 08/01/1984
Event: RFA COMPLETED

Event date: 08/01/1984
Event: PA OR CERCLA INSPECTION

Event date: 02/19/1986
Event: STABILIZATION/INTERIM MEASURES DECISION-GROUNDWATER EXTRACTION & TREATMENT

Event date: 02/19/1986
Event: INVESTIGATION IMPOSITION

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Event date: 02/19/1986
Event: STABILIZATION/INTERIM MEASURES DECISION-PRIMARY MEAS IS SOURCE REMOVL &/OR TRT

Event date: 02/19/1986
Event: CMS IMPOSITION

Event date: 05/01/1989
Event: INVESTIGATION WORKPLAN APPROVED

Event date: 05/01/1989
Event: CMS WORKPLAN APPROVED

Event date: 02/22/1991
Event: REMEDY DECISION

Event date: 02/22/1991
Event: REMEDY DECISION

Event date: 02/22/1991
Event: INVESTIGATION COMPLETE

Event date: 02/22/1991
Event: CMS COMPLETE

Event date: 02/22/1991
Event: STABILIZATION CONSTRUCTION COMPLETED

Event date: 04/01/1991
Event: REMEDY CONSTRUCTION-REMEDY CONSTRUCTED

Event date: 04/01/1991
Event: REMEDY CONSTRUCTION

Event date: 10/07/1994
Event: REFERRED TO A NON-RCRA AUTHORITY-REFERRED TO CERCLA

Event date: 10/07/1994
Event: CA PRIORITIZATION-MEDIUM CA PRIORITY

Event date: 09/26/1997
Event: STABILIZATION MEASURES EVALUATION-FACILITY NOT AMENABLE TO STABILIZATION

Event date: 09/26/1997
Event: REFERRED TO A NON-RCRA AUTHORITY

Event date: 09/26/1997
Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 09/26/1997
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 12/28/2000
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

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Event date: 12/28/2000
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 12/28/2000
Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 12/28/2000
Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 05/14/1992
Date achieved compliance: 01/01/1993
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General Facility Standards
Date violation determined: 03/09/1992
Date achieved compliance: 02/09/1994
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 08/23/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5000
Paid penalty amount: 5000

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 03/09/1992
Date achieved compliance: 06/24/1993
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 04/02/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Tank System Standards
Date violation determined: 03/09/1992
Date achieved compliance: 02/09/1994

EMBARCADERO REALTY SERVICES LP (Continued) **1000201854**

Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/10/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 03/09/1992
Date achieved compliance: 02/09/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/10/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 03/09/1992
Date achieved compliance: 05/17/1993
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 04/02/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Manifest/Records/Reporting
Date violation determined: 03/09/1992
Date achieved compliance: 02/09/1994
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 04/02/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 03/09/1992
Date achieved compliance: 05/17/1993
Violation lead agency: State

EMBARCADERO REALTY SERVICES LP (Continued) **1000201854**

Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/10/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 03/09/1992
Date achieved compliance: 05/17/1993
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 08/23/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5000
Paid penalty amount: 5000

Regulation violated: Not reported
Area of violation: TSD - Manifest/Records/Reporting
Date violation determined: 03/09/1992
Date achieved compliance: 02/09/1994
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 08/23/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5000
Paid penalty amount: 5000

Regulation violated: Not reported
Area of violation: TSD - General Facility Standards
Date violation determined: 03/09/1992
Date achieved compliance: 02/09/1994
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 04/02/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General Facility Standards
Date violation determined: 03/09/1992
Date achieved compliance: 02/09/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL

EMBARCADERO REALTY SERVICES LP (Continued) **1000201854**

Enforcement action date: 03/10/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Tank System Standards
Date violation determined: 03/09/1992
Date achieved compliance: 02/09/1994
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 08/23/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5000
Paid penalty amount: 5000

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 03/09/1992
Date achieved compliance: 02/09/1994
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 04/02/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 03/09/1992
Date achieved compliance: 02/09/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/10/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 03/09/1992
Date achieved compliance: 02/09/1994
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 04/02/1993

EMBARCADERO REALTY SERVICES LP (Continued) **1000201854**

Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Manifest
Date violation determined: 03/09/1992
Date achieved compliance: 06/24/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/10/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Tank System Standards
Date violation determined: 03/09/1992
Date achieved compliance: 02/09/1994
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 04/02/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 03/09/1992
Date achieved compliance: 02/09/1994
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 08/23/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5000
Paid penalty amount: 5000

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 03/09/1992
Date achieved compliance: 06/24/1993
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 08/23/1994
Enf. disposition status: Not reported

EMBARCADERO REALTY SERVICES LP (Continued) **1000201854**

Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5000
Paid penalty amount: 5000

Regulation violated: Not reported
Area of violation: Generators - Manifest
Date violation determined: 03/09/1992
Date achieved compliance: 06/24/1993
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 04/02/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Manifest
Date violation determined: 03/09/1992
Date achieved compliance: 06/24/1993
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 08/23/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5000
Paid penalty amount: 5000

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 03/09/1992
Date achieved compliance: 02/09/1994
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 08/23/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5000
Paid penalty amount: 5000

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 03/09/1992
Date achieved compliance: 06/24/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/10/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

EMBARCADERO REALTY SERVICES LP (Continued) **1000201854**

Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Manifest/Records/Reporting
Date violation determined: 03/09/1992
Date achieved compliance: 02/09/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/10/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 12/20/1989
Date achieved compliance: 12/20/1989
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 04/02/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 12/20/1989
Date achieved compliance: 12/20/1989
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 08/23/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5000
Paid penalty amount: 5000

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 12/20/1989
Date achieved compliance: 12/20/1989
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 08/23/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

EMBARCADERO REALTY SERVICES LP (Continued) **1000201854**

Proposed penalty amount: Not reported
Final penalty amount: 5000
Paid penalty amount: 5000

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 12/20/1989
Date achieved compliance: 12/20/1989
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 04/02/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 12/21/1988
Date achieved compliance: 02/09/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/15/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 12/21/1988
Date achieved compliance: 05/17/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/15/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 12/21/1988
Date achieved compliance: 12/20/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/15/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported

EMBARCADERO REALTY SERVICES LP (Continued) **1000201854**

Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 12/21/1988
Date achieved compliance: 05/17/1993
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 08/23/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5000
Paid penalty amount: 5000

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 12/21/1988
Date achieved compliance: 12/20/1989
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 08/23/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5000
Paid penalty amount: 5000

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 12/21/1988
Date achieved compliance: 01/28/1992
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/15/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 12/21/1988
Date achieved compliance: 02/09/1994
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 08/23/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5000

EMBARCADERO REALTY SERVICES LP (Continued) **1000201854**

Paid penalty amount: 5000

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 12/21/1988
Date achieved compliance: 01/28/1992
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 08/23/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5000
Paid penalty amount: 5000

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 12/10/1986
Date achieved compliance: 12/20/1989
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 12/10/1986
Date achieved compliance: 12/20/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/02/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 12/10/1986
Date achieved compliance: 12/20/1989
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

EMBARCADERO REALTY SERVICES LP (Continued) **1000201854**

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 12/10/1986
Date achieved compliance: 12/20/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/02/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 12/10/1986
Date achieved compliance: 12/20/1989
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 04/02/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 12/10/1986
Date achieved compliance: 12/20/1989
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 08/23/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5000
Paid penalty amount: 5000

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 12/10/1986
Date achieved compliance: 12/20/1989
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 04/02/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported

EMBARCADERO REALTY SERVICES LP (Continued) **1000201854**

Area of violation: TSD - Closure/Post-Closure
Date violation determined: 12/10/1986
Date achieved compliance: 12/20/1989
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 08/23/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5000
Paid penalty amount: 5000

Evaluation Action Summary:
Evaluation date: 06/20/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/09/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/14/1992
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 01/01/1993
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 01/28/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Manifest/Records/Reporting
Date achieved compliance: 02/09/1994
Evaluation lead agency: State

Evaluation date: 01/28/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 06/24/1993
Evaluation lead agency: State

Evaluation date: 01/28/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Tank System Standards
Date achieved compliance: 02/09/1994
Evaluation lead agency: State

Evaluation date: 01/28/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Manifest
Date achieved compliance: 06/24/1993
Evaluation lead agency: State

Evaluation date: 01/28/1992

EMBARCADERO REALTY SERVICES LP (Continued) **1000201854**

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 02/09/1994
Evaluation lead agency: State

Evaluation date: 01/28/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 05/17/1993
Evaluation lead agency: State

Evaluation date: 01/28/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Financial Requirements
Date achieved compliance: 02/09/1994
Evaluation lead agency: State

Evaluation date: 01/28/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General Facility Standards
Date achieved compliance: 02/09/1994
Evaluation lead agency: State

Evaluation date: 12/20/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 12/20/1989
Evaluation lead agency: State

Evaluation date: 12/20/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 12/20/1989
Evaluation lead agency: State

Evaluation date: 12/08/1989
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/21/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 12/20/1989
Evaluation lead agency: State

Evaluation date: 12/21/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 05/17/1993
Evaluation lead agency: State

Evaluation date: 12/21/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 02/09/1994

EMBARCADERO REALTY SERVICES LP (Continued) **1000201854**

Evaluation lead agency: State

Evaluation date: 12/21/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 01/28/1992
Evaluation lead agency: State

Evaluation date: 12/15/1988
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/10/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 12/20/1989
Evaluation lead agency: State

Evaluation date: 12/10/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 12/20/1989
Evaluation lead agency: State

ROD:

Full-text of USEPA Record of Decision(s) is available from EDR.

FINDS:

Registry ID: 110058354025

Environmental Interest/Information System
AIR EMISSIONS CLASSIFICATION UNKNOWN

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

NPL Region SW < 1/8 143 ft. **SPECTRA-PHYSICS, INC.**
1250 W MIDDLEFIELD RD
MOUNTAIN VIEW, CA 94042

NPL SEMS CORRACTS RCRA-SQG US ENG CONTROLS ROD NY MANIFEST **1000181197 CAD009138488**

NPL:
EPA ID: CAD009138488
Cerclis ID: 900252
EPA Region: 9
Federal: N
Final Date: 1991-02-11 00:00:00
Site Score: 37.200000000000003
Latitude: 37.408050000000003
Longitude: -122.07859999999999

SPECTRA-PHYSICS, INC. (Continued) **1000181197**

Category Details:

NPL Status:	Currently on the Final NPL
Category Description:	Depth To Aquifer-> 10 And <= 25 Feet
Category Value:	25

NPL Status:	Currently on the Final NPL
Category Description:	Distance To Nearest Population-> 0 And <= 1/4 Mile
Category Value:	10

Site Details:

Site Name:	SPECTRA-PHYSICS, INC.
Site Status:	Final
Site Zip:	94042
Site City:	MOUNTAIN VIEW
Site State:	CA
Federal Site:	No
Site County:	SANTA CLARA
EPA Region:	09
Date Proposed:	06/24/88
Date Deleted:	Not reported
Date Finalized:	02/11/91

Substance Details:

NPL Status:	Currently on the Final NPL
Substance ID:	Not reported
Substance:	Not reported
CAS #:	Not reported
Pathway:	Not reported
Scoring:	Not reported

NPL Status:	Currently on the Final NPL
Substance ID:	C321
Substance:	TRICHLOROETHANE
CAS #:	25323-89-1
Pathway:	GROUND WATER PATHWAY
Scoring:	2

NPL Status:	Currently on the Final NPL
Substance ID:	U044
Substance:	CHLOROFORM
CAS #:	67-66-3
Pathway:	GROUND WATER PATHWAY
Scoring:	3

NPL Status:	Currently on the Final NPL
Substance ID:	U079
Substance:	TRANS-DICHLOROETHYLENE, 1,2-
CAS #:	156-60-5
Pathway:	GROUND WATER PATHWAY
Scoring:	2

NPL Status:	Currently on the Final NPL
Substance ID:	U210
Substance:	TETRACHLOROETHENE
CAS #:	127-18-4
Pathway:	GROUND WATER PATHWAY

SPECTRA-PHYSICS, INC. (Continued) **1000181197**

Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U228
Substance: TRICHLOROETHYLENE (TCE)
CAS #: 79-01-6
Pathway: GROUND WATER PATHWAY
Scoring: 2

Summary Details:

Conditions at proposal June 24, 1988): Spectra-Physics, Inc. SP) has manufactured electronic equipment and gas lasers on Terra Bella Boulevard and Middlefield Roads in Mountain View, Santa Clara County, California, since 1961. The 11.5-acre site consists of nine buildings in a light industrial complex. SP uses a variety of cleansers, degreasers, and lubricants in its manufacturing processes, including isopropyl alcohol, acetone, methyl alcohol, trichloroethylene TCE), Freon, 1,1,1-trichloroethane TCA), and Solvasol Solvent 360. In an inspection conducted in 1981, the California Regional Water Quality Control Board CRWQCB) found that areas where ha ardous wastes were stored had no dikes or systems to collect leachate; rusty barrels were also found on-site. Ground water investigations began at the SP facility in September 1984 after tests at Teledyne Semiconductor adjacent and downgradient of SP) indicated possible upgradient sources of contamination. The Teledyne site was placed on the NPL in July 1987.) Soil and ground water collected at SP contained TCE, TCA, and 1,2-dichloroethylene. SP s plume of contaminated ground water has merged with Teledyne s and migrated off-site. More than 200 private drinking water wells had been drilled into the 1-square-mile plume. Most wells have been closed; 47 were found contaminated above State Action Levels. The owners now obtain water from municipal water supplies. An estimated 189,000 people obtain drinking water from public and private wells within 3 miles of the site. Teledyne is operating two extraction wells on-site -- one in the shallow one and one in the intermediate one. The wells pump the water to the surface and discharge it to the sanitary sewer; the ground water is not treated before discharge. SP will evaluate the effectiveness of this system in preventing its on-site plume from migrating off-site. Both companies are jointly designing an off-site extraction system. San Francisco Bay 2.5 miles downstream of the site) is used for recreational activities. Permanente Creek is tidally influenced within 1 mile of the site. Several species of birds designated as endangered species by the U.S. Fish and Wildlife Service are found within the area of tidal influence. Status February 11, 1991): In February 1990, SP installed a vapor extraction system to reduce concentrations of contaminants in soil. Underan order issued by CRWQCB, SP 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. The RI/FS was completed in December 1990. In February 1991, CRWQCB will adopt a final cleanup and abatement order requiring SP to implement the best remedial alternative evaluated in the RI/FS. This alternative will include expanding the existing soil vapor extraction system and the ground water extraction system. In April 1991, EPA will complete a Record of Decision describing the selected remedy.

Site Status Details:

NPL Status: Final
Proposed Date: 06/24/1988
Final Date: 02/11/1991
Deleted Date: Not reported

SPECTRA-PHYSICS, INC. (Continued) **1000181197**

Narratives Details:
NPL Name: SPECTRA-PHYSICS, INC.
City: MOUNTAIN VIEW
State: CA

SEMS:
Site ID: 0900252
EPA ID: CAD009138488
Cong District: 14,18
FIPS Code: 06085
Latitude: +37.408050
Longitude: -122.078600
FF: N
NPL: Currently on the Final NPL
Non NPL Status: Not reported

SEMS Detail:
Region: 09
Site ID: 0900252
EPA ID: CAD009138488
Site Name: SPECTRA-PHYSICS, INC.
NPL: F
FF: N
OU: 00
Action Code: SI
Action Name: SI
SEQ: 1
Start Date: 1987-06-01 04:00:00
Finish Date: 6/1/1987 4:00:00 AM
Qual: H
Current Action Lead: EPA Perf

Region: 09
Site ID: 0900252
EPA ID: CAD009138488
Site Name: SPECTRA-PHYSICS, INC.
NPL: F
FF: N
OU: 00
Action Code: RS
Action Name: RV ASSESS
SEQ: 1
Start Date: 1992-10-22 04:00:00
Finish Date: 10/22/1992 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0900252
EPA ID: CAD009138488
Site Name: SPECTRA-PHYSICS, INC.
NPL: F
FF: N
OU: 00
Action Code: AR
Action Name: ADMIN REC

SPECTRA-PHYSICS, INC. (Continued) **1000181197**

SEQ: 1
Start Date: 1991-03-22 05:00:00
Finish Date: 3/22/1991 5:00:00 AM
Qual: E
Current Action Lead: EPA Perf

Region: 09
Site ID: 0900252
EPA ID: CAD009138488
Site Name: SPECTRA-PHYSICS, INC.
NPL: F
FF: N
OU: 00
Action Code: FE
Action Name: 5 YEAR
SEQ: 1
Start Date: 1999-09-29 04:00:00
Finish Date: 9/29/1999 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0900252
EPA ID: CAD009138488
Site Name: SPECTRA-PHYSICS, INC.
NPL: F
FF: N
OU: 00
Action Code: NF
Action Name: NPL FINL
SEQ: 1
Start Date: 1991-02-11 05:00:00
Finish Date: 2/11/1991 5:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0900252
EPA ID: CAD009138488
Site Name: SPECTRA-PHYSICS, INC.
NPL: F
FF: N
OU: 00
Action Code: HR
Action Name: HAZRANK
SEQ: 1
Start Date: 1987-06-01 04:00:00
Finish Date: 6/1/1987 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0900252
EPA ID: CAD009138488
Site Name: SPECTRA-PHYSICS, INC.
NPL: F
FF: N

SPECTRA-PHYSICS, INC. (Continued) **1000181197**

OU: 00
Action Code: CR
Action Name: CI
SEQ: 1
Start Date: 2017-07-14 04:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0900252
EPA ID: CAD009138488
Site Name: SPECTRA-PHYSICS, INC.
NPL: F
FF: N
OU: 00
Action Code: RS
Action Name: RV ASSESS
SEQ: 2
Start Date: 1990-06-18 04:00:00
Finish Date: 6/18/1990 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0900252
EPA ID: CAD009138488
Site Name: SPECTRA-PHYSICS, INC.
NPL: F
FF: N
OU: 00
Action Code: NP
Action Name: PROPOSED
SEQ: 1
Start Date: 1988-06-24 04:00:00
Finish Date: 6/24/1988 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0900252
EPA ID: CAD009138488
Site Name: SPECTRA-PHYSICS, INC.
NPL: F
FF: N
OU: 00
Action Code: FE
Action Name: 5 YEAR
SEQ: 4
Start Date: 2013-08-30 04:00:00
Finish Date: 9/23/2014 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0900252
EPA ID: CAD009138488

SPECTRA-PHYSICS, INC. (Continued) **1000181197**

Site Name:	SPECTRA-PHYSICS, INC.
NPL:	F
FF:	N
OU:	00
Action Code:	FE
Action Name:	5 YEAR
SEQ:	2
Start Date:	2003-12-31 05:00:00
Finish Date:	9/30/2004 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0900252
EPA ID:	CAD009138488
Site Name:	SPECTRA-PHYSICS, INC.
NPL:	F
FF:	N
OU:	00
Action Code:	FE
Action Name:	5 YEAR
SEQ:	3
Start Date:	2009-09-30 04:00:00
Finish Date:	9/30/2009 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0900252
EPA ID:	CAD009138488
Site Name:	SPECTRA-PHYSICS, INC.
NPL:	F
FF:	N
OU:	01
Action Code:	RO
Action Name:	ROD
SEQ:	1
Start Date:	1991-03-22 05:00:00
Finish Date:	3/22/1991 5:00:00 AM
Qual:	R
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0900252
EPA ID:	CAD009138488
Site Name:	SPECTRA-PHYSICS, INC.
NPL:	F
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1987-04-01 05:00:00
Finish Date:	4/1/1987 5:00:00 AM
Qual:	H
Current Action Lead:	EPA Perf

SPECTRA-PHYSICS, INC. (Continued) **1000181197**

Region:	09
Site ID:	0900252
EPA ID:	CAD009138488
Site Name:	SPECTRA-PHYSICS, INC.
NPL:	F
FF:	N
OU:	00
Action Code:	CM
Action Name:	PCOR
SEQ:	1
Start Date:	1992-09-16 04:00:00
Finish Date:	9/16/1992 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0900252
EPA ID:	CAD009138488
Site Name:	SPECTRA-PHYSICS, INC.
NPL:	F
FF:	N
OU:	01
Action Code:	BE
Action Name:	PRP RD
SEQ:	1
Start Date:	1991-03-22 05:00:00
Finish Date:	3/22/1991 5:00:00 AM
Qual:	Not reported
Current Action Lead:	St Ovrsght

Region:	09
Site ID:	0900252
EPA ID:	CAD009138488
Site Name:	SPECTRA-PHYSICS, INC.
NPL:	F
FF:	N
OU:	00
Action Code:	MA
Action Name:	ST COOP
SEQ:	1
Start Date:	1989-09-15 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	St Ovrsght

Region:	09
Site ID:	0900252
EPA ID:	CAD009138488
Site Name:	SPECTRA-PHYSICS, INC.
NPL:	F
FF:	N
OU:	01
Action Code:	BD
Action Name:	PRP RI/FS
SEQ:	1
Start Date:	1989-01-18 05:00:00
Finish Date:	3/22/1991 5:00:00 AM

SPECTRA-PHYSICS, INC. (Continued) **1000181197**

Qual:	Not reported
Current Action Lead:	St Ovrsght
Region:	09
Site ID:	0900252
EPA ID:	CAD009138488
Site Name:	SPECTRA-PHYSICS, INC.
NPL:	F
FF:	N
OU:	01
Action Code:	BF
Action Name:	PRP RA
SEQ:	1
Start Date:	1991-03-22 05:00:00
Finish Date:	3/22/1991 5:00:00 AM
Qual:	Not reported
Current Action Lead:	St Ovrsght
Region:	09
Site ID:	0900252
EPA ID:	CAD009138488
Site Name:	SPECTRA-PHYSICS, INC.
NPL:	F
FF:	N
OU:	01
Action Code:	OM
Action Name:	OM
SEQ:	1
Start Date:	1991-03-22 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	St Ovrsght
Region:	09
Site ID:	0900252
EPA ID:	CAD009138488
Site Name:	SPECTRA-PHYSICS, INC.
NPL:	F
FF:	N
OU:	01
Action Code:	NK
Action Name:	PRP FS
SEQ:	1
Start Date:	2012-08-22 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Ovrsght
Region:	09
Site ID:	0900252
EPA ID:	CAD009138488
Site Name:	SPECTRA-PHYSICS, INC.
NPL:	F
FF:	N
OU:	01
Action Code:	ED
Action Name:	R/H ASMT

SPECTRA-PHYSICS, INC. (Continued) **1000181197**

SEQ: 1
Start Date: 1991-06-15 04:00:00
Finish Date: 6/15/1991 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Ovrsght

Region: 09
Site ID: 0900252
EPA ID: CAD009138488
Site Name: SPECTRA-PHYSICS, INC.
NPL: F
FF: N
OU: 01
Action Code: NA
Action Name: PRP RI
SEQ: 1
Start Date: 2009-10-05 04:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Ovrsght

Region: 09
Site ID: 0900252
EPA ID: CAD009138488
Site Name: SPECTRA-PHYSICS, INC.
NPL: F
FF: N
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1988-04-01 05:00:00
Finish Date: 4/1/1988 5:00:00 AM
Qual: Not reported
Current Action Lead: St Perf

CORRACTS:
EPA ID: CAD009138488
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19870401
Action: CA075HI - CA Prioritization, Facility or area was assigned a high corrective action priority
NAICS Code(s): 332999 334516
All Other Miscellaneous Fabricated Metal Product Manufacturing
Analytical Laboratory Instrument Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: SPECTRA-PHYSICS INC
Facility address: 1250 W MIDDLEFIELD ROAD
MOUNTAIN VIEW, CA 94042
EPA ID: CAD009138488

SPECTRA-PHYSICS, INC. (Continued) **1000181197**

Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: SPECTRA-PHYSICS INC
Owner/operator address: 1250 W MIDDLEFIELD
MOUNTAIN VIEW, CA 94042
Owner/operator country: Not reported
Owner/operator telephone: 415-961-2550
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: SPECTRA-PHYSICS INC
Owner/operator address: 1250 W MIDDLEFIELD
CITY NOT REPORTED, CA 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-961-2550
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No

SPECTRA-PHYSICS, INC. (Continued) **1000181197**

Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 09/01/1996
Site name: SPECTRA-PHYSICS INC
Classification: Small Quantity Generator

Date form received by agency: 10/27/1992
Site name: SPECTRA-PHYSICS LASERS,INC.
Classification: Large Quantity Generator

Date form received by agency: 04/16/1990
Site name: SPECTRA-PHYSICS INC
Classification: Large Quantity Generator

Date form received by agency: 11/13/1980
Site name: SPECTRA-PHYSICS INC
Classification: Large Quantity Generator

Corrective Action Summary:
Event date: 04/01/1987
Event: LEAD AGENCY DETERMINATION

Event date: 04/01/1987
Event: PA OR CERCLA INSPECTION

Event date: 04/01/1987
Event: CA PRIORITIZATION-HIGH CA PRIORITY

Event date: 04/01/1987
Event: NCAPS RANKING/PRIORITY

Event date: 06/01/1987
Event: PA OR CERCLA INSPECTION

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 02/25/1987
Date achieved compliance: 09/30/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/29/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 09/30/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported

SPECTRA-PHYSICS, INC. (Continued) **1000181197**

Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 02/25/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 09/30/1988
Evaluation lead agency: State

US ENG CONTROLS:
EPA ID: CAD009138488
Site ID: 0900252
Name: SPECTRA-PHYSICS, INC.
Address: 1250 W MIDDLEFIELD RD
MOUNTAIN VIEW, CA 94042
EPA Region: 09
County: SANTA CLARA
Event Code: Not reported
Actual Date: 03/31/1991
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 03/22/1991
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Air Stripping
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 03/22/1991
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Carbon Adsorption
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 03/22/1991
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Discharge
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 03/22/1991
Operable Unit: 01
Contaminated Media : Groundwater

SPECTRA-PHYSICS, INC. (Continued) **1000181197**

Engineering Control: Flocculation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 03/22/1991
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Operations & Maintenance (O&M)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 03/22/1991
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Publicly Owned Treatment Works (POTW)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 03/22/1991
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Pump And Treat
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 03/22/1991
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Impermeable Barrier
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 03/22/1991
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Operations & Maintenance (O&M)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION

SPECTRA-PHYSICS, INC. (Continued) **1000181197**

Action Completion date: 03/22/1991
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Soil Vapor Extraction (in-situ)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

ROD:

Full-text of USEPA Record of Decision(s) is available from EDR.

NY MANIFEST:

Country:	USA
EPA ID:	CAD009138488
Facility Status:	Not reported
Location Address 1:	1335 TERRA BELLA BLDG 7
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	MOUNTAIN VIEW
Location State:	CA
Location Zip:	94039
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	CAD009138488
Mailing Name:	SPECTRA PHYSICS
Mailing Contact:	SPECTRA PHYSICS
Mailing Address 1:	1335 TERRA BELLA BLDG 7
Mailing Address 2:	Not reported
Mailing City:	MOUNTAIN VIEW
Mailing State:	CA
Mailing Zip:	94039
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	4159612550

NY MANIFEST:

Document ID:	NYA4161947
Manifest Status:	C
seq:	Not reported
Year:	1986
Trans1 State ID:	706348
Trans2 State ID:	X17593NY
Generator Ship Date:	09/17/1986
Trans1 Recv Date:	09/17/1986
Trans2 Recv Date:	/ /
TSD Site Recv Date:	09/26/1986
Part A Recv Date:	09/23/1986
Part B Recv Date:	10/02/1986
Generator EPA ID:	CAD009138488
Trans1 EPA ID:	NYD980769947
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD000632372
TSDF ID 2:	Not reported

SPECTRA-PHYSICS, INC. (Continued) **1000181197**

Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	D003 - NON-LISTED REACTIVE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00008
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

NPL **JASCO CHEMICAL CORP.** **NPL** **1000175646**
Region **1710 VILLA ST** **SEMS** **CAD009103318**
SW **MOUNTAIN VIEW, CA 94041** **RCRA-SQG**
1/2-1 **US ENG CONTROLS**
3581 ft. **US INST CONTROL**
ROD
PRP

NPL:

EPA ID:	CAD009103318
Cerclis ID:	901126
EPA Region:	9
Federal:	N
Final Date:	1989-10-04 00:00:00
Site Score:	35.359999999999999
Latitude:	37.398800000000001
Longitude:	-122.0882

Category Details:

NPL Status:	Currently on the Final NPL
Category Description:	Depth To Aquifer-> 10 And <= 25 Feet
Category Value:	23

NPL Status:	Currently on the Final NPL
Category Description:	Distance To Nearest Population-> 0 And <= 1/4 Mile
Category Value:	10

JASCO CHEMICAL CORP. (Continued) **1000175646**

Site Details:
Site Name: JASCO CHEMICAL CORP.
Site Status: Final
Site Zip: 94041
Site City: MOUNTAIN VIEW
Site State: CA
Federal Site: No
Site County: SANTA CLARA
EPA Region: 09
Date Proposed: 06/24/88
Date Deleted: Not reported
Date Finalized: 10/04/89

Substance Details:
NPL Status: Currently on the Final NPL
Substance ID: Not reported
Substance: Not reported
CAS #: Not reported
Pathway: Not reported
Scoring: Not reported

NPL Status: Currently on the Final NPL
Substance ID: U051
Substance: CREOSOTE
CAS #: 8001-58-9
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U080
Substance: METHYLENE CHLORIDE
CAS #: 75-09-2
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U220
Substance: TOLUENE
CAS #: 108-88-3
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U226
Substance: TRICHLOROETHANE, 1,1,1-
CAS #: 71-55-6
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U242
Substance: PENTACHLOROPHENOL (PCP)
CAS #: 87-86-5
Pathway: GROUND WATER PATHWAY
Scoring: 3

JASCO CHEMICAL CORP. (Continued) **1000175646**

NPL Status: Currently on the Final NPL
Substance ID: U242
Substance: PENTACHLOROPHENOL (PCP)
CAS #: 87-86-5
Pathway: SURFACE WATER PATHWAY
Scoring: 3

Summary Details:

Conditions at proposal June 24, 1988): Jasco Chemical Corp. has formulated chemical products on a 2.05-acre site in Mountain View, Santa Clara County, California, since 1976. The site is bordered on the northeast by the Central Expressway and the Southern Pacific Railroad, and on the remaining sides by residential neighborhoods. In January 1983, a citi en complained to the California Regional Water Quality Control Board CRWQCB) that the facility was dumping solvents at therear of the site on a daily basis. CRWQCB requested Jasco to install a monitoring well at the site to determine if ground water was contaminated. Both ground water and soil are contaminated at the site, according to analyses conducted byconsultants to Jasco. Methylene chloride concentrations are as high as 142,000 parts per million in ground water, and soil is highly contaminated with pentachlorophenol to depths of 20 feet. Contamination is believed to have resulted from anyof the following sources: an underground tank farm, two dry wells used for disposal of storm water run-off from the roof and paved portion of the site, and a drain that discharges surface run-off at the rear of the site. The company is working with CRWQCB to determine the extent of the contamination and to prevent further migration of the contaminants. In addition, the City of Mountain View closed nearby Municipal Well 17 in 1987, until the lateral and vertical extent of the pollution has been defined. About 333,000 people obtain drinking water from wells within 3 miles of the site. Status October 4, 1989): Jasco is pumping and treating ground water to remove contamination. In July 1988, Municipal Well 17was returned to service. In November 1988, Jasco excavated 550 cubic feet of contaminated soil and transported it to a ha ardous waste facility regulated under Subtitle C of the Resource Conservation and Recovery Act.

Site Status Details:
NPL Status: Final
Proposed Date: 06/24/1988
Final Date: 10/04/1989
Deleted Date: Not reported

Narratives Details:
NPL Name: JASCO CHEMICAL CORP.
City: MOUNTAIN VIEW
State: CA

SEMS:
Site ID: 0901126
EPA ID: CAD009103318
Cong District: 14,18
FIPS Code: 06085
Latitude: +37.398800
Longitude: -122.088200
FF: N
NPL: Currently on the Final NPL

JASCO CHEMICAL CORP. (Continued) **1000175646**

Non NPL Status: Not reported

SEMS Detail:

Region:	09
Site ID:	0901126
EPA ID:	CAD009103318
Site Name:	JASCO CHEMICAL CORP.
NPL:	F
FF:	N
OU:	00
Action Code:	CR
Action Name:	CI
SEQ:	1
Start Date:	1988-04-20 04:00:00
Finish Date:	7/1/1988 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0901126
EPA ID:	CAD009103318
Site Name:	JASCO CHEMICAL CORP.
NPL:	F
FF:	N
OU:	00
Action Code:	NP
Action Name:	PROPOSED
SEQ:	1
Start Date:	1988-06-24 04:00:00
Finish Date:	6/24/1988 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0901126
EPA ID:	CAD009103318
Site Name:	JASCO CHEMICAL CORP.
NPL:	F
FF:	N
OU:	00
Action Code:	HR
Action Name:	HAZRANK
SEQ:	1
Start Date:	1987-06-01 04:00:00
Finish Date:	6/1/1987 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0901126
EPA ID:	CAD009103318
Site Name:	JASCO CHEMICAL CORP.
NPL:	F
FF:	N
OU:	00
Action Code:	CM
Action Name:	PCOR
SEQ:	1

JASCO CHEMICAL CORP. (Continued) **1000175646**

Start Date:	2002-09-20 04:00:00
Finish Date:	9/20/2002 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901126
EPA ID:	CAD009103318
Site Name:	JASCO CHEMICAL CORP.
NPL:	F
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1986-12-01 05:00:00
Finish Date:	12/1/1986 5:00:00 AM
Qual:	L
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901126
EPA ID:	CAD009103318
Site Name:	JASCO CHEMICAL CORP.
NPL:	F
FF:	N
OU:	01
Action Code:	RO
Action Name:	ROD
SEQ:	1
Start Date:	1992-09-30 04:00:00
Finish Date:	9/30/1992 4:00:00 AM
Qual:	R
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901126
EPA ID:	CAD009103318
Site Name:	JASCO CHEMICAL CORP.
NPL:	F
FF:	N
OU:	00
Action Code:	FE
Action Name:	5 YEAR
SEQ:	2
Start Date:	2012-09-28 04:00:00
Finish Date:	9/28/2012 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901126
EPA ID:	CAD009103318
Site Name:	JASCO CHEMICAL CORP.
NPL:	F
FF:	N
OU:	00

JASCO CHEMICAL CORP. (Continued) **1000175646**

Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1986-10-01 04:00:00
Finish Date:	10/1/1986 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901126
EPA ID:	CAD009103318
Site Name:	JASCO CHEMICAL CORP.
NPL:	F
FF:	N
OU:	01
Action Code:	AR
Action Name:	ADMIN REC
SEQ:	1
Start Date:	1991-03-01 05:00:00
Finish Date:	5/22/1992 4:00:00 AM
Qual:	E
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901126
EPA ID:	CAD009103318
Site Name:	JASCO CHEMICAL CORP.
NPL:	F
FF:	N
OU:	00
Action Code:	RS
Action Name:	RV ASSESS
SEQ:	1
Start Date:	1990-09-19 04:00:00
Finish Date:	9/19/1990 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901126
EPA ID:	CAD009103318
Site Name:	JASCO CHEMICAL CORP.
NPL:	F
FF:	N
OU:	00
Action Code:	RS
Action Name:	RV ASSESS
SEQ:	2
Start Date:	1991-04-11 04:00:00
Finish Date:	4/11/1991 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901126
EPA ID:	CAD009103318
Site Name:	JASCO CHEMICAL CORP.

JASCO CHEMICAL CORP. (Continued) **1000175646**

NPL: F
FF: N
OU: 00
Action Code: NF
Action Name: NPL FINL
SEQ: 1
Start Date: 1989-10-04 04:00:00
Finish Date: 10/4/1989 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0901126
EPA ID: CAD009103318
Site Name: JASCO CHEMICAL CORP.
NPL: F
FF: N
OU: 00
Action Code: TA
Action Name: TECH ASSIST
SEQ: 1
Start Date: 2011-03-03 05:00:00
Finish Date: 3/3/2011 5:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0901126
EPA ID: CAD009103318
Site Name: JASCO CHEMICAL CORP.
NPL: F
FF: N
OU: 00
Action Code: FE
Action Name: 5 YEAR
SEQ: 1
Start Date: 2006-12-12 05:00:00
Finish Date: 9/28/2007 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0901126
EPA ID: CAD009103318
Site Name: JASCO CHEMICAL CORP.
NPL: F
FF: N
OU: 00
Action Code: SI
Action Name: SI
SEQ: 1
Start Date: 1987-06-01 04:00:00
Finish Date: 6/1/1987 4:00:00 AM
Qual: H
Current Action Lead: EPA Perf

Region: 09

JASCO CHEMICAL CORP. (Continued) **1000175646**

Site ID:	0901126
EPA ID:	CAD009103318
Site Name:	JASCO CHEMICAL CORP.
NPL:	F
FF:	N
OU:	01
Action Code:	BE
Action Name:	PRP RD
SEQ:	1
Start Date:	1992-12-16 05:00:00
Finish Date:	7/31/1996 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Ovrsght

Region:	09
Site ID:	0901126
EPA ID:	CAD009103318
Site Name:	JASCO CHEMICAL CORP.
NPL:	F
FF:	N
OU:	01
Action Code:	BD
Action Name:	PRP RI/FS
SEQ:	1
Start Date:	1988-12-21 05:00:00
Finish Date:	9/30/1992 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Ovrsght

Region:	09
Site ID:	0901126
EPA ID:	CAD009103318
Site Name:	JASCO CHEMICAL CORP.
NPL:	F
FF:	N
OU:	01
Action Code:	TS
Action Name:	TRTSTUDY
SEQ:	1
Start Date:	1994-06-15 04:00:00
Finish Date:	2/1/1998 5:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Ovrsght

Region:	09
Site ID:	0901126
EPA ID:	CAD009103318
Site Name:	JASCO CHEMICAL CORP.
NPL:	F
FF:	N
OU:	01
Action Code:	BF
Action Name:	PRP RA
SEQ:	1
Start Date:	1996-07-31 04:00:00
Finish Date:	9/9/2002 4:00:00 AM
Qual:	FR

JASCO CHEMICAL CORP. (Continued) **1000175646**

Current Action Lead: EPA Ovrsght

Region: 09
Site ID: 0901126
EPA ID: CAD009103318
Site Name: JASCO CHEMICAL CORP.
NPL: F
FF: N
OU: 00
Action Code: MA
Action Name: ST COOP
SEQ: 1
Start Date: 1989-09-15 04:00:00
Finish Date: 9/15/1989 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Ovrsght

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: JASCO CHEM CORP
Facility address: 1710 VILLA ST
MOUNTAIN VIEW, CA 94043
EPA ID: CAD009103318
Mailing address: DRAWER J
MOUNTAIN VIEW, CA 94043
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED

JASCO CHEMICAL CORP. (Continued) **1000175646**

NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 08/18/1980
Site name: JASCO CHEM CORP
Classification: Large Quantity Generator

Violation Status: No violations found

US ENG CONTROLS:
EPA ID: CAD009103318
Site ID: 0901126
Name: JASCO CHEMICAL CORP.
Address: 1710 VILLA ST
MOUNTAIN VIEW, CA 94041
EPA Region: 09
County: SANTA CLARA
Event Code: Not reported
Actual Date: 03/31/2012
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: Explanation Of Significant Differences
Action Completion date: 09/13/2002
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Air Stripping
Contact Name: Not reported
Contact Phone and Ext: Not reported

JASCO CHEMICAL CORP. (Continued) **1000175646**

Event Code Description: Not reported

Action ID: 001
Action Name: Explanation Of Significant Differences
Action Completion date: 09/13/2002
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Carbon Adsorption
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: Explanation Of Significant Differences
Action Completion date: 09/13/2002
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Discharge
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: Explanation Of Significant Differences
Action Completion date: 09/13/2002
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Bioremediation (Ex-Situ)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: Explanation Of Significant Differences
Action Completion date: 09/26/2012
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Non-fundamental change (ESD)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/30/1992
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Extraction
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/30/1992
Operable Unit: 01
Contaminated Media : Groundwater

JASCO CHEMICAL CORP. (Continued) **1000175646**

Engineering Control: Hydraulic Control
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/30/1992
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Liquid Phase Carbon Adsorption
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/30/1992
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/30/1992
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Operations & Maintenance (O&M)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/30/1992
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Publicly Owned Treatment Works (POTW)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/30/1992
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Residuals Disposal
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION

JASCO CHEMICAL CORP. (Continued) **1000175646**

Action Completion date: 09/30/1992
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Bioremediation Treatment, (N.O.S.)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/30/1992
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Excavation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/30/1992
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Residuals Disposal
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/30/1992
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Treatment, (N.O.S.)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

US INST CONTROL:
EPA ID: CAD009103318
Site ID: 0901126
Name: JASCO CHEMICAL CORP.
Action Name: Explanation Of Significant Differences
Address: 1710 VILLA ST
MOUNTAIN VIEW, CA 94041
EPA Region: 09
County: SANTA CLARA
Event Code: Not reported
Inst. Control: Covenant
Actual Date: Not reported
Complet. Date: 09/13/2002
Operable Unit: 01
Contaminated Media : Groundwater
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

JASCO CHEMICAL CORP. (Continued) **1000175646**

EPA ID: CAD009103318
Site ID: 0901126
Name: JASCO CHEMICAL CORP.
Action Name: RECORD OF DECISION
Address: 1710 VILLA ST
MOUNTAIN VIEW, CA 94041
EPA Region: 09
County: SANTA CLARA
Event Code: Not reported
Inst. Control: Easement
Actual Date: 09/30/1992
Complet. Date: 09/30/1992
Operable Unit: 01
Contaminated Media : Groundwater
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CAD009103318
Site ID: 0901126
Name: JASCO CHEMICAL CORP.
Action Name: RECORD OF DECISION
Address: 1710 VILLA ST
MOUNTAIN VIEW, CA 94041
EPA Region: 09
County: SANTA CLARA
Event Code: Not reported
Inst. Control: Easement
Actual Date: 09/30/1992
Complet. Date: 09/30/1992
Operable Unit: 01
Contaminated Media : Soil
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

ROD:
Full-text of USEPA Record of Decision(s) is available from EDR.

PRP Name: CAROL JEAN ANTHONY
CAROL JEAN ANTHONY
CAROL JEAN ANTHONY
HARRY M. ANTHONY
HARRY M. ANTHONY
HARRY M. ANTHONY
JASCO CHEMICAL
JASCO CHEMICAL
JASCO CHEMICAL
JASCO CHEMICAL

NPL **CTS PRINTEX, INC.** **NPL** **1000128432**
Region **PLYMOUTH & COLONY STS** **SEMS** **CAD009212838**
NW **MOUNTAIN VIEW, CA 94043** **RCRA-SQG**
1/2-1 **US ENG CONTROLS**
3733 ft. **US INST CONTROL**
CA ENVIROSTOR
CA HIST Cal-Sites
CA HIST UST
ROD
PRP
ICIS
CONSENT
FINDS
ECHO

NPL:

EPA ID:	CAD009212838
Cerclis ID:	901206
EPA Region:	9
Federal:	N
Final Date:	1990-02-21 00:00:00
Site Score:	33.619999999999997
Latitude:	37.416499999999999
Longitude:	-122.0872

Category Details:

NPL Status:	Currently on the Final NPL
Category Description:	Depth To Aquifer-<= 10 Feet
Category Value:	8

NPL Status:	Currently on the Final NPL
Category Description:	Distance To Nearest Population-> 0 And <= 1/4 Mile
Category Value:	100

Site Details:

Site Name:	CTS PRINTEX, INC.
Site Status:	Final
Site Zip:	94043
Site City:	MOUNTAIN VIEW
Site State:	CA
Federal Site:	No
Site County:	SANTA CLARA
EPA Region:	09
Date Proposed:	06/24/88
Date Deleted:	Not reported
Date Finalized:	02/21/90

Substance Details:

NPL Status:	Currently on the Final NPL
Substance ID:	Not reported
Substance:	Not reported
CAS #:	Not reported
Pathway:	Not reported
Scoring:	Not reported

NPL Status:	Currently on the Final NPL
Substance ID:	C178
Substance:	COPPER AND COMPOUNDS

CTS PRINTEX, INC. (Continued) **1000128432**

CAS #: Not reported
Pathway: GROUND WATER PATHWAY
Scoring: 3

NPL Status: Currently on the Final NPL
Substance ID: C349
Substance: DICHLOROETHANE
CAS #: 1300-21-6
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: D008
Substance: LEAD (PB)
CAS #: 7439-92-1
Pathway: GROUND WATER PATHWAY
Scoring: 3

NPL Status: Currently on the Final NPL
Substance ID: U078
Substance: DICHLOROETHENE, 1,1-
CAS #: 75-35-4
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U079
Substance: TRANS-DICHLOROETHYLENE, 1,2-
CAS #: 156-60-5
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U226
Substance: TRICHLOROETHANE, 1,1,1-
CAS #: 71-55-6
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U228
Substance: TRICHLOROETHYLENE (TCE)
CAS #: 79-01-6
Pathway: GROUND WATER PATHWAY
Scoring: 2

Summary Details:

Conditions at proposal June 24, 1988): CTS Printex, Inc., manufactured printed circuit boards on 5.6 acres in Mountain View, Santa Clara County, California, during 1966-85. Printex was incorporated in 1966 and acquired by CTS Corp. in 1981.In the wet-floor building at 1911 Plymouth Street, acid waste water containing copper, lead, and organic wastes containing trichloroethylene TCE) and other solvents drained to the floor, collected in a sump where they were neutrali ed withammonia, and discharged to the Mountain View sanitary sewer. Early in 1985, a consultant to CTS Corp. found high levels of copper and lead in soil near the wet-floor building and high levels of TCE, 1,1,1-trichloroethane, and 1,1-dichloroethylene in

CTS PRINTEX, INC. (Continued) **1000128432**

monitoring wells downgradient of the site. An estimated 189,000 people obtain drinking water from municipal wells within 3 miles of the site. Permanente Creek borders the site. Surface water drainage eventually discharges to San Francisco Bay 2.5 miles to the north. Late in 1985, the company excavated the sump area and filled it in, decontaminated the building, and transported waste materials to a ha ardous waste facility regulated under Subtitle C of the Resource Conservation and Recovery Act RCRA). In October 1986, the California Department of Health Services certified closure of the facility. In an attempt to stop migration of contaminated ground water off-site, the company is pumping the water and discharging it to Mountain View s sanitary sewer system under a city permit. The company continues to monitor to define the plume of contaminated ground water. In March 1987, the California Regional Water Quality Control BoardCRWQCB) issued a Cleanup and Abatement Order requiring the company to be more expeditious and thorough in its cleanup and set a schedule for various on- and off-site tasks. Status February 21, 1990): CTS Printex is conducting a remedialinvestigation/feasibility study RI/FS) to determine the type and extent of contamination at the site and identify alternatives for remedial action. In November 1989, CRWQCB received the first draft of the RI/FS for review. The final draft isscheduled to be submitted in late 1990.

Site Status Details:

NPL Status:	Final
Proposed Date:	06/24/1988
Final Date:	02/21/1990
Deleted Date:	Not reported

Narratives Details:

NPL Name:	CTS PRINTEX, INC.
City:	MOUNTAIN VIEW
State:	CA

SEMS:

Site ID:	0901206
EPA ID:	CAD009212838
Cong District:	14,18
FIPS Code:	06085
Latitude:	+37.416500
Longitude:	-122.087200
FF:	N
NPL:	Currently on the Final NPL
Non NPL Status:	Not reported

SEMS Detail:

Region:	09
Site ID:	0901206
EPA ID:	CAD009212838
Site Name:	CTS PRINTEX, INC.
NPL:	F
FF:	N
OU:	00
Action Code:	FE
Action Name:	5 YEAR
SEQ:	4
Start Date:	2014-11-12 05:00:00
Finish Date:	9/22/2015 4:00:00 AM

CTS PRINTEX, INC. (Continued) **1000128432**

Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 09
Site ID: 0901206
EPA ID: CAD009212838
Site Name: CTS PRINTEX, INC.
NPL: F
FF: N
OU: 00
Action Code: FE
Action Name: 5 YEAR
SEQ: 3
Start Date: 2010-09-07 04:00:00
Finish Date: 9/7/2010 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 09
Site ID: 0901206
EPA ID: CAD009212838
Site Name: CTS PRINTEX, INC.
NPL: F
FF: N
OU: 00
Action Code: FE
Action Name: 5 YEAR
SEQ: 2
Start Date: 2005-09-30 04:00:00
Finish Date: 9/30/2005 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 09
Site ID: 0901206
EPA ID: CAD009212838
Site Name: CTS PRINTEX, INC.
NPL: F
FF: N
OU: 00
Action Code: NP
Action Name: PROPOSED
SEQ: 1
Start Date: 1988-06-24 04:00:00
Finish Date: 6/24/1988 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0901206
EPA ID: CAD009212838
Site Name: CTS PRINTEX, INC.
NPL: F
FF: N
OU: 00
Action Code: SI
Action Name: SI

CTS PRINTEX, INC. (Continued) **1000128432**

SEQ: 1
Start Date: 1987-06-01 04:00:00
Finish Date: 6/1/1987 4:00:00 AM
Qual: H
Current Action Lead: EPA Perf

Region: 09
Site ID: 0901206
EPA ID: CAD009212838
Site Name: CTS PRINTEX, INC.
NPL: F
FF: N
OU: 00
Action Code: RS
Action Name: RV ASSESS
SEQ: 1
Start Date: 1992-12-29 05:00:00
Finish Date: 12/29/1992 5:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0901206
EPA ID: CAD009212838
Site Name: CTS PRINTEX, INC.
NPL: F
FF: N
OU: 00
Action Code: HR
Action Name: HAZRANK
SEQ: 1
Start Date: 1987-06-01 04:00:00
Finish Date: 6/1/1987 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0901206
EPA ID: CAD009212838
Site Name: CTS PRINTEX, INC.
NPL: F
FF: N
OU: 00
Action Code: RS
Action Name: RV ASSESS
SEQ: 2
Start Date: 1989-08-01 04:00:00
Finish Date: 8/1/1989 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0901206
EPA ID: CAD009212838
Site Name: CTS PRINTEX, INC.
NPL: F
FF: N

CTS PRINTEX, INC. (Continued) **1000128432**

OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1986-10-01 04:00:00
Finish Date:	10/1/1986 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901206
EPA ID:	CAD009212838
Site Name:	CTS PRINTEX, INC.
NPL:	F
FF:	N
OU:	00
Action Code:	RS
Action Name:	RV ASSESS
SEQ:	3
Start Date:	1990-07-02 04:00:00
Finish Date:	7/2/1990 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901206
EPA ID:	CAD009212838
Site Name:	CTS PRINTEX, INC.
NPL:	F
FF:	N
OU:	01
Action Code:	AR
Action Name:	ADMIN REC
SEQ:	1
Start Date:	1991-10-31 05:00:00
Finish Date:	11/4/1991 5:00:00 AM
Qual:	E
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901206
EPA ID:	CAD009212838
Site Name:	CTS PRINTEX, INC.
NPL:	F
FF:	N
OU:	00
Action Code:	CM
Action Name:	PCOR
SEQ:	1
Start Date:	1992-03-31 05:00:00
Finish Date:	3/31/1992 5:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901206
EPA ID:	CAD009212838

CTS PRINTEX, INC. (Continued) **1000128432**

Site Name:	CTS PRINTEX, INC.
NPL:	F
FF:	N
OU:	01
Action Code:	RO
Action Name:	ROD
SEQ:	1
Start Date:	1991-06-28 04:00:00
Finish Date:	6/28/1991 4:00:00 AM
Qual:	R
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901206
EPA ID:	CAD009212838
Site Name:	CTS PRINTEX, INC.
NPL:	F
FF:	N
OU:	01
Action Code:	FS
Action Name:	FS
SEQ:	1
Start Date:	2009-09-10 04:00:00
Finish Date:	9/30/2011 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901206
EPA ID:	CAD009212838
Site Name:	CTS PRINTEX, INC.
NPL:	F
FF:	N
OU:	00
Action Code:	CR
Action Name:	CI
SEQ:	1
Start Date:	2010-05-07 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901206
EPA ID:	CAD009212838
Site Name:	CTS PRINTEX, INC.
NPL:	F
FF:	N
OU:	01
Action Code:	FS
Action Name:	FS
SEQ:	2
Start Date:	2009-09-10 04:00:00
Finish Date:	9/30/2011 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

CTS PRINTEX, INC. (Continued) **1000128432**

Region:	09
Site ID:	0901206
EPA ID:	CAD009212838
Site Name:	CTS PRINTEX, INC.
NPL:	F
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1987-04-01 05:00:00
Finish Date:	4/1/1987 5:00:00 AM
Qual:	H
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0901206
EPA ID:	CAD009212838
Site Name:	CTS PRINTEX, INC.
NPL:	F
FF:	N
OU:	00
Action Code:	NF
Action Name:	NPL FINL
SEQ:	1
Start Date:	1990-02-21 05:00:00
Finish Date:	2/21/1990 5:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0901206
EPA ID:	CAD009212838
Site Name:	CTS PRINTEX, INC.
NPL:	F
FF:	N
OU:	01
Action Code:	BE
Action Name:	PRP RD
SEQ:	1
Start Date:	1991-06-28 04:00:00
Finish Date:	6/28/1991 4:00:00 AM
Qual:	Not reported
Current Action Lead:	St Ovrsght

Region:	09
Site ID:	0901206
EPA ID:	CAD009212838
Site Name:	CTS PRINTEX, INC.
NPL:	F
FF:	N
OU:	01
Action Code:	BF
Action Name:	PRP RA
SEQ:	1
Start Date:	1991-06-28 04:00:00
Finish Date:	3/31/1992 5:00:00 AM

CTS PRINTEX, INC. (Continued) **1000128432**

Qual:	Not reported
Current Action Lead:	St Ovrsght
Region:	09
Site ID:	0901206
EPA ID:	CAD009212838
Site Name:	CTS PRINTEX, INC.
NPL:	F
FF:	N
OU:	01
Action Code:	OM
Action Name:	OM
SEQ:	1
Start Date:	1992-03-31 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	St Ovrsght
Region:	09
Site ID:	0901206
EPA ID:	CAD009212838
Site Name:	CTS PRINTEX, INC.
NPL:	F
FF:	N
OU:	00
Action Code:	MA
Action Name:	ST COOP
SEQ:	1
Start Date:	1989-09-15 04:00:00
Finish Date:	7/6/2006 4:00:00 AM
Qual:	Not reported
Current Action Lead:	St Ovrsght
Region:	09
Site ID:	0901206
EPA ID:	CAD009212838
Site Name:	CTS PRINTEX, INC.
NPL:	F
FF:	N
OU:	01
Action Code:	BD
Action Name:	PRP RI/FS
SEQ:	1
Start Date:	1989-04-19 04:00:00
Finish Date:	6/28/1991 4:00:00 AM
Qual:	Not reported
Current Action Lead:	St Ovrsght
Region:	09
Site ID:	0901206
EPA ID:	CAD009212838
Site Name:	CTS PRINTEX, INC.
NPL:	F
FF:	N
OU:	00
Action Code:	FE
Action Name:	5 YEAR

CTS PRINTEX, INC. (Continued) **1000128432**

SEQ: 1
Start Date: 1999-11-10 05:00:00
Finish Date: 11/10/1999 5:00:00 AM
Qual: Not reported
Current Action Lead: St Ovrsght

Region: 09
Site ID: 0901206
EPA ID: CAD009212838
Site Name: CTS PRINTEX, INC.
NPL: F
FF: N
OU: 01
Action Code: ED
Action Name: R/H ASMT
SEQ: 1
Start Date: 1989-10-16 04:00:00
Finish Date: 10/16/1989 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Ovrsght

Region: 09
Site ID: 0901206
EPA ID: CAD009212838
Site Name: CTS PRINTEX, INC.
NPL: F
FF: N
OU: 01
Action Code: JF
Action Name: ECO RISK
SEQ: 1
Start Date: 1989-10-16 04:00:00
Finish Date: 10/16/1989 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Ovrsght

Region: 09
Site ID: 0901206
EPA ID: CAD009212838
Site Name: CTS PRINTEX, INC.
NPL: F
FF: N
OU: 01
Action Code: BE
Action Name: PRP RD
SEQ: 2
Start Date: 2017-06-24 04:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Ovrsght

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: PRINTEX CORPORATION
Facility address: PLYMOUTH & COLONY STS.
MOUNTAIN VIEW, CA 94043

CTS PRINTEX, INC. (Continued) **1000128432**

EPA ID: CAD009212838
Mailing address: 1950 COLONY STREET
MOUNTAIN VIEW, CA 94043
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: PRINTEX CORPORATION
Owner/operator address: 1950 COLONY STREET
CITY NOT REPORTED, CA 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-964-5000
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: ADN CORPORATION
Owner/operator address: 450 SAN ANTONIO RD.
PALO ALTO, CA 94306
Owner/operator country: Not reported
Owner/operator telephone: 415-494-7313
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No

CTS PRINTEX, INC. (Continued) **1000128432**

User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 08/18/1980
Site name: PRINTEX CORPORATION
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 09/26/1984
Date achieved compliance: 09/26/1984
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 04/13/1984
Date achieved compliance: 08/13/1984
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/13/1984
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 09/23/1986
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/07/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/28/1984
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported

CTS PRINTEX, INC. (Continued) **1000128432**

Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/26/1984
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - General
Date achieved compliance: 09/26/1984
Evaluation lead agency: State

Evaluation date: 08/13/1984
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/13/1984
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/13/1984
Evaluation lead agency: State

US ENG CONTROLS:
EPA ID: CAD009212838
Site ID: 0901206
Name: CTS PRINTEX, INC.
Address: PLYMOUTH & COLONY STS
MOUNTAIN VIEW, CA 94043
EPA Region: 09
County: SANTA CLARA
Event Code: Not reported
Actual Date: 09/30/2011
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/28/1991
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Discharge
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/28/1991
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Extraction
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/28/1991

CTS PRINTEX, INC. (Continued) **1000128432**

Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: ROD Amendment
Action Completion date: 09/30/2011
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Bioaugmentation (in-situ)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: ROD Amendment
Action Completion date: 09/30/2011
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Enhanced Reductive Dechlorination, (In-Situ), N.O.S.
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: ROD Amendment
Action Completion date: 09/30/2011
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: ROD Amendment
Action Completion date: 09/30/2011
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Natural Attenuation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: ROD Amendment
Action Completion date: 09/30/2011
Operable Unit: 01
Contaminated Media : Soil Gas
Engineering Control: Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

CTS PRINTEX, INC. (Continued) **1000128432**

Action ID: 001
Action Name: ROD Amendment
Action Completion date: 09/30/2011
Operable Unit: 01
Contaminated Media : Soil Gas
Engineering Control: No Further Action
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: ROD Amendment
Action Completion date: 09/30/2011
Operable Unit: 01
Contaminated Media : Soil Gas
Engineering Control: Sub-Membrane Depressurization
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: ROD Amendment
Action Completion date: 09/30/2011
Operable Unit: 01
Contaminated Media : Soil Gas
Engineering Control: Sub-Slab Depressurization System
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: ROD Amendment
Action Completion date: 09/30/2011
Operable Unit: 01
Contaminated Media : Soil Gas
Engineering Control: Vapor Barrier
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

US INST CONTROL:
EPA ID: CAD009212838
Site ID: 0901206
Name: CTS PRINTEX, INC.
Action Name: ROD Amendment
Address: PLYMOUTH & COLONY STS
MOUNTAIN VIEW, CA 94043
EPA Region: 09
County: SANTA CLARA
Event Code: Not reported
Inst. Control: Institutional Controls, (N.O.S.)
Actual Date: 09/30/2011
Complet. Date: 09/30/2011
Operable Unit: 01
Contaminated Media : Groundwater
Contact Name : Not reported

CTS PRINTEX, INC. (Continued) **1000128432**

Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CAD009212838
Site ID: 0901206
Name: CTS PRINTEX, INC.
Action Name: ROD Amendment
Address: PLYMOUTH & COLONY STS
MOUNTAIN VIEW, CA 94043
EPA Region: 09
County: SANTA CLARA
Event Code: Not reported
Inst. Control: Covenant
Actual Date: 09/30/2011
Complet. Date: 09/30/2011
Operable Unit: 01
Contaminated Media : Soil Gas
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

ENVIROSTOR:
Facility ID: 43360083
Status: Refer: RWQCB
Status Date: 01/30/1989
Site Code: 200128
Site Type: Federal Superfund
Site Type Detailed: State Response or NPL
Acres: Not reported
NPL: YES
Regulatory Agencies: RWQCB
Lead Agency: RWQCB
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Berkeley
Assembly: 24
Senate: 13
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.41612
Longitude: -122.0884
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CTS PRINTEX CORPORATION
Alias Type: Alternate Name
Alias Name: CTX PRINTEX INC.
Alias Type: Alternate Name
Alias Name: CAD009212838
Alias Type: EPA Identification Number
Alias Name: 110008260988
Alias Type: EPA (FRS #)
Alias Name: SL720991217

CTS PRINTEX, INC. (Continued) **1000128432**

Alias Type: GeoTracker Global ID
Alias Name: P23087
Alias Type: PCode
Alias Name: 200128
Alias Type: Project Code (Site Code)
Alias Name: 43360083
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 11/26/2012
Comments: Letter from U.S. Environmental Protection Agency to the Department of Toxic Substances Control and Regional Water Quality Control Board providing notification of plans to send special notice letters to CTS Printex Corporation and ADN Corporation to initiate negotiations to conduct remedial design and remedial action work at 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

Calsite:
Region: BERKELEY
Facility ID: 43360083
Facility Type: NPRP
Type: NPL SITE, RP-FUNDED
Branch: NC
Branch Name: NORTH COAST
File Name: Not reported
State Senate District: 01301989
Status: DOES NOT REQUIRE DTSC ACTION. REFERRED TO REGIONAL WATER QUALITY CONTROL BOARD (RWQCB) LEAD
Status Name: PROPERTY/SITE REFERRED TO RWQCB
Lead Agency: REGIONAL WATER QUALITY CONTROL BOARD
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: Not reported
Supervisor Responsible for Site: Not reported
Region Water Control Board: Not reported
Region Water Control Board Name: Not reported
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported

CTS PRINTEX, INC. (Continued) **1000128432**

Lat/Long Description:	Not reported
State Assembly District Code:	Not reported
State Senate District Code:	Not reported
Facility ID:	Not reported
Activity:	Not reported
Activity Name:	Not reported
AWP Code:	Not reported
Proposed Budget:	Not reported
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	Not reported
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	Not reported
Definition of Status:	Not reported
Liquids Removed (Gals):	Not reported
Liquids Treated (Gals):	Not reported
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:	Not reported
For Industrial Reuse:	Not reported
For Residential Reuse:	Not reported
Unknown Type:	Not reported
Alternate Address:	1950 COLONY STREET
Alternate City,St,Zip:	MOUNTAIN VIEW, CA 94043
Alternate Address:	PLYMOUTH AND COLONY STREETS - CERCLIS
Alternate City,St,Zip:	MOUNTAIN VIEW, CA
Alternate Address:	1950 COLONY STREET
Alternate City,St,Zip:	MOUNTAIN VIEW, CA 94043
Alternate Address:	PLYMOUTH & COLONY STS
Alternate City,St,Zip:	MOUNTAIN VIEW, CA 94043
Background Info:	Not reported
Comments Date:	01011989
Comments:	This is the date the site was first listed AWP pursuant to
Comments Date:	01011989
Comments:	Section 25356.
Comments Date:	01301989
Comments:	Site has been referred to RWQCB; former BEP site.
Comments Date:	01301989
Comments:	Groundwater on & off site contains VOCs and heavy metals
Comments Date:	01301989
Comments:	including lead and copper. Soils on site are contaminated
Comments Date:	01301989
Comments:	with lead and copper. People who occupy the "wet floor"
Comments Date:	01301989
Comments:	building in the future could be exposed to hazardous
Comments Date:	01301989
Comments:	chemicals if they inhale gases from the contaminated soils
Comments Date:	01301989
Comments:	under it, especially if they are in a confined space.
ID Name:	CALSTARS CODE
ID Value:	200128
ID Name:	BEP DATABASE PCODE

CTS PRINTEX, INC. (Continued) **1000128432**

ID Value: P23087
ID Name: EPA IDENTIFICATION NUMBER
ID Value: CAD009212838
Alternate Name: CTS PRINTEX CORPORATION
Alternate Name: CTS PRINTEX
Alternate Name: CTX PRINTEX INC.
Alternate Name: Not reported
Special Programs Code: Not reported
Special Programs Name: Not reported

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000035466
Facility Type: Other
Other Type: PRINTED CIRCUIT BOAR
Contact Name: NOEL L. BARNES, PRESIDENT
Telephone: 4159645000
Owner Name: CTS CORPORATION
Owner Address: 905 NORTH WEST BOULEVARD
Owner City,St,Zip: ELKHART, IN 46514
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: 1969
Tank Capacity: 00001130
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 54
Leak Detection: Visual

ROD:
Full-text of USEPA Record of Decision(s) is available from EDR.

PRP Name: ADN CORPORATION
CTS PRINTEX, INC.

ICIS:
Enforcement Action ID: 09-2014-2506
FRS ID: 110008260988
Action Name: CTS Printex, Inc.
Facility Name: PRINTEX CORPORATION
Facility Address: PLYMOUTH & COLONY STS.
MOUNTAIN VIEW, CA 94043
Enforcement Action Type: Civil Judicial Action
Facility County: SANTA CLARA
Program System Acronym: CERCLIS
Enforcement Action Forum Desc: Judicial
EA Type Code: CIV
Facility SIC Code: Not reported
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 37.4165
Longitude in Decimal Degrees: -122.0872
Permit Type Desc: Not reported

CTS PRINTEX, INC. (Continued) **1000128432**

Program System Acronym: CAD009212838
Facility NAICS Code: Not reported
Tribal Land Code: Not reported

Enforcement Action ID: 09-1992-0106
FRS ID: 110008260988
Action Name: CTS PRINTEX, INC.
Facility Name: PRINTEX CORPORATION
Facility Address: PLYMOUTH & COLONY STS.
MOUNTAIN VIEW, CA 94043
Enforcement Action Type: Civil Judicial Action
Facility County: SANTA CLARA
Program System Acronym: ICIS
Enforcement Action Forum Desc: Judicial
EA Type Code: CIV
Facility SIC Code: 3679
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 37.4165
Longitude in Decimal Degrees: -122.0872
Permit Type Desc: Not reported
Program System Acronym: 38998
Facility NAICS Code: Not reported
Tribal Land Code: Not reported

Facility Name: PRINTEX CORPORATION
Address: PLYMOUTH & COLONY STS.
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: PRINTEX CORPORATION
Address: PLYMOUTH & COLONY STS.
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: PRINTEX CORPORATION
Address: PLYMOUTH & COLONY STS.
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: PRINTEX CORPORATION
Address: PLYMOUTH & COLONY STS.
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: PRINTEX CORPORATION
Address: PLYMOUTH & COLONY STS.
Tribal Indicator: N
Fed Facility: No

CTS PRINTEX, INC. (Continued) **1000128432**

NAIC Code: Not reported
SIC Code: 3272

Facility Name: PRINTEX CORPORATION
Address: PLYMOUTH & COLONY STS.
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 3679

Facility Name: PRINTEX CORPORATION
Address: PLYMOUTH & COLONY STS.
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 3272

Facility Name: PRINTEX CORPORATION
Address: PLYMOUTH & COLONY STS.
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 3679

Facility Name: PRINTEX CORPORATION
Address: PLYMOUTH & COLONY STS.
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 3272

Facility Name: PRINTEX CORPORATION
Address: PLYMOUTH & COLONY STS.
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 3679

Facility Name: PRINTEX CORPORATION
Address: PLYMOUTH & COLONY STS.
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 3272

Facility Name: PRINTEX CORPORATION
Address: PLYMOUTH & COLONY STS.
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 3679

CONSENT:
EPA ID: CAD009212838
Site ID: Not reported
Case Title: U.S. V. CTS PRINTEX CORPORATION AND ADN CORPORATION
Court Num: 92-20665

CTS PRINTEX, INC. (Continued) **1000128432**

District: California, Nort
Entered Date: 19940525
Full-text of the consent decree for this site issued by the United States District Court is available from EDR. Contact your EDR Account Executive.

FINDS:

Registry ID: 110008260988

Environmental Interest/Information System

California Department of Toxic Substances Control EnviroStor System (DTSC-EnviroStor) is an online search and Geographic Information System (GIS) tool for identifying sites that have known contamination or sites for which there may be reasons to investigate further. The EnviroStor 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.

SUPERFUND NPL

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.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000128432
Registry ID: 110008260988
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110008260988

B10 **ADVANCED MARINE SERVICE** **CA CUPA Listings** **S121472252**
East **1049 LINDA VISTA AV** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.009 mi.
46 ft. **Site 1 of 11 in cluster B**

Relative:
Higher

Actual:
37 ft.

CUPA SANTA CLARA:

Facility Name:	ADVANCED MARINE SERVICE
Region:	SANTA CLARA
PE#:	2202
Program Description:	GENERATES < 100 KG/YR
Latitude:	37.409345
Longitude:	-122.075325
Record ID:	PR0368107
Facility ID:	FA0252859

B11 **GARD-MORE CIRCUITS INC** **RCRA-SQG** **1000306629**
ENE **1066 LINDA VISTA** **FINDS** **CAT080027147**
< 1/8 **MOUNTAIN VIEW, CA 94040** **ECHO**
0.009 mi.
47 ft. **Site 2 of 11 in cluster B**

Relative:
Lower

Actual:
36 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	MAIN-CHAMP CO
Facility address:	1066 LINDA VISTA MOUNTAIN VIEW, CA 94043
EPA ID:	CAT080027147
Mailing address:	1350 WILLOW RD MENLO PARK, CA 94025
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	JRM HANDFIELD

GARD-MORE CIRCUITS INC (Continued) **1000306629**

Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/30/1981
Site name: MAIN-CHAMP CO
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002650881

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Registry ID: 110009556186

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.

GARD-MORE CIRCUITS INC (Continued) **1000306629**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000306629
Registry ID:	110009556186
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110009556186

Envid:	1000306629
Registry ID:	110002650881
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002650881

B12 **CSI MOUNTAIN VIEW** **CA CPS-SLIC S118172411**
ENE **1066/1080 LINDA VISTA AVENUE** **CA CERS N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.009 mi.
47 ft. **Site 3 of 11 in cluster B**

Relative:
Lower

Actual:
36 ft.

CPS-SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	01/04/2018
Global Id:	T10000007784
Lead Agency:	SANTA CLARA COUNTY LOP
Lead Agency Case Number:	06S2W15M05s
Latitude:	37.41025
Longitude:	-122.07617
Case Type:	Cleanup Program Site
Case Worker:	AC
Local Agency:	SANTA CLARA COUNTY LOP
RB Case Number:	Not reported
File Location:	All Files are on GeoTracker or in the Local Agency Database
Potential Media Affected:	Indoor Air, Soil, Soil Vapor
Potential Contaminants of Concern:	Other Solvent or Non-Petroleum Hydrocarbon, Benzene
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

CERS TANKS:

Site ID:	359256
CERS ID:	T10000007784
CERS Description:	Cleanup Program Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	AARON COSTA - SANTA CLARA COUNTY LOP
Entity Title:	Not reported
Affiliation Address:	1555 Berger Drive, Suite 300
Affiliation City:	SAN JOSE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	4089181954

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)

CSI MOUNTAIN VIEW (Continued) **S118172411**

Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

B13 **GARD-MORE CIRCUITS INC** **RCRA-SQG** **1000184291**
ENE **1066 LINDA VISTA** **CAD056462005**
< 1/8 **MOUNTAIN VIEW, CA 94040**
0.009 mi.
47 ft. **Site 4 of 11 in cluster B**

Relative:
Lower

Actual:
36 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	GARD-MORE CIRCUITS INC
Facility address:	1066 LINDA VISTA MOUNTAIN VIEW, CA 94040
EPA ID:	CAD056462005
Mailing address:	LINDA VISTA MOUNTAIN VIEW, CA 94040
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	JERRY GILLMORE
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported

GARD-MORE CIRCUITS INC (Continued) **1000184291**

Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

C14 **AMARANTH MEDICAL** **CA CERS HAZ WASTE** **S121759533**
SE **1145 TERRA BELLA AVE** **CA CERS** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.016 mi.
86 ft. **Site 1 of 5 in cluster C**

Relative:
Higher

Actual:
39 ft.

CERS HAZ WASTE:
Site ID: 277641
CERS ID: 10632460
CERS Description: Hazardous Waste Generator

Violations:
Site ID: 277641
Site Name: Amaranth Medical
Violation Date: 12-15-2015
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 02/03/2016. Update gas storage in two areas and hazardous waste information during next annual CERS update.
Violation Division: Mountain View Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-16-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations

AMARANTH MEDICAL (Continued) **S121759533**

Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-20-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-03-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 277641
Facility Name: Amaranth Medical
Env Int Type Code: HWG
Program ID: 10632460
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 37.408130
Longitude: -122.075970

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Anthony Andreacchi
Entity Title: Not reported
Affiliation Address: 1145 Terra Bella Avenue
Affiliation City: Mountain View
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94043
Affiliation Phone: (650) 965-3830

Affiliation Type Desc: Identification Signer
Entity Name: Anthony Andreacchi
Entity Title: Vice President, R&D and Operations
Affiliation Address: Not reported

AMARANTH MEDICAL (Continued) **S121759533**

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:	Amaranth Medical
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:	Kamal Ramzipoor
Entity Title:	Not reported
Affiliation Address:	1145 Terra Bella Avenue
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94043
Affiliation Phone:	(650) 965-3830
Affiliation Type Desc:	CUPA District
Entity Name:	Santa Clara County Environmental Health
Entity Title:	Not reported
Affiliation Address:	1555 Berger Drive, Suite 300
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95112-2716
Affiliation Phone:	(408) 918-3400
Affiliation Type Desc:	Document Preparer
Entity Name:	Anthony Andreacchi
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:	1145 Terra Bella Avenue
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner

AMARANTH MEDICAL (Continued) **S121759533**

Entity Name: Old Trace Partners
Entity Title: Not reported
Affiliation Address: 419 S. San Antonio Road, Suite 212
Affiliation City: Los Altos
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94022
Affiliation Phone: (650) 559-6500

Affiliation Type Desc: Operator
Entity Name: Amaranth Medical, 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: (650) 965-3830

CERS TANKS:
Site ID: 277641
CERS ID: 10632460
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 277641
Site Name: Amaranth Medical
Violation Date: 12-15-2015
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 02/03/2016. Update gas storage in two areas and hazardous waste information during next annual CERS update.
Violation Division: Mountain View Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-16-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-20-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP

AMARANTH MEDICAL (Continued) **S121759533**

Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-03-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 277641
Facility Name: Amaranth Medical
Env Int Type Code: HWG
Program ID: 10632460
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 37.408130
Longitude: -122.075970

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Anthony Andreacchi
Entity Title: Not reported
Affiliation Address: 1145 Terra Bella Avenue
Affiliation City: Mountain View
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94043
Affiliation Phone: (650) 965-3830

Affiliation Type Desc: Identification Signer
Entity Name: Anthony Andreacchi
Entity Title: Vice President, R&D and Operations
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: Amaranth Medical
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported

AMARANTH MEDICAL (Continued) **S121759533**

Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: Kamal Ramzipoor
Entity Title: Not reported
Affiliation Address: 1145 Terra Bella Avenue
Affiliation City: Mountain View
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94043
Affiliation Phone: (650) 965-3830

Affiliation Type Desc: CUPA District
Entity Name: Santa Clara County Environmental Health
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: San Jose
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95112-2716
Affiliation Phone: (408) 918-3400

Affiliation Type Desc: Document Preparer
Entity Name: Anthony Andreacchi
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: 1145 Terra Bella Avenue
Affiliation City: Mountain View
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94043
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner
Entity Name: Old Trace Partners
Entity Title: Not reported
Affiliation Address: 419 S. San Antonio Road, Suite 212
Affiliation City: Los Altos
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94022
Affiliation Phone: (650) 559-6500

Affiliation Type Desc: Operator
Entity Name: Amaranth Medical, Inc.

AMARANTH MEDICAL (Continued) **S121759533**

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:	(650) 965-3830

C15 **AMARANTH MEDICAL** **CA CUPA Listings** **S118494205**
SE **1145 TERRA BELLA AV** **CA HAZNET** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.016 mi.
86 ft. **Site 2 of 5 in cluster C**

Relative:
Higher

Actual:
39 ft.

CUPA SANTA CLARA:

Facility Name:	AMARANTH MEDICAL
Region:	SANTA CLARA
PE#:	2202
Program Description:	GENERATES < 100 KG/YR
Latitude:	37.408105
Longitude:	-122.075955
Record ID:	PR0422793
Facility ID:	FA0281723

HAZNET:

Facility Name:	AMARANTH MEDICAL, INC.
envid:	S118494205
Year:	2017
GEPAID:	CAL000400044
Contact:	ANTHONY ANDREACCHI
Telephone:	6509653830
Mailing Name:	Not reported
Mailing Address:	1145 TERRA BELLA AVE STE A
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 940431831
Gen County:	San Bernardino
TSD EPA ID:	ARD981057870
TSD County:	99
Waste Category:	Unspecified solvent mixture
Disposal Method:	Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.108
Cat Decode:	Unspecified solvent mixture
Method Decode:	Fuel Blending Prior To Energy Recovery At Another Site
Facility County:	San Bernardino

envid:	S118494205
Year:	2017
GEPAID:	CAL000400044
Contact:	ANTHONY ANDREACCHI
Telephone:	6509653830
Mailing Name:	Not reported
Mailing Address:	1145 TERRA BELLA AVE STE A
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 940431831
Gen County:	San Bernardino
TSD EPA ID:	CAD059494310
TSD County:	Santa Clara
Waste Category:	Other organic solids

AMARANTH MEDICAL (Continued) **S118494205**

Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.149
Cat Decode:	Other organic solids
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	San Bernardino
envid:	S118494205
Year:	2017
GEPAID:	CAL000400044
Contact:	ANTHONY ANDREACCHI
Telephone:	6509653830
Mailing Name:	Not reported
Mailing Address:	1145 TERRA BELLA AVE STE A
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 940431831
Gen County:	San Bernardino
TSD EPA ID:	CAD008364432
TSD County:	Los Angeles
Waste Category:	Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.1034
Cat Decode:	Liquids with halogenated organic compounds >= 1,000 Mg./L
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	San Bernardino
envid:	S118494205
Year:	2016
GEPAID:	CAL000400044
Contact:	ANTHONY ANDREACCHI
Telephone:	6509653830
Mailing Name:	Not reported
Mailing Address:	1145 TERRA BELLA AVE STE A
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 940431831
Gen County:	San Bernardino
TSD EPA ID:	CAD008364432
TSD County:	Los Angeles
Waste Category:	Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.02085
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Bernardino
envid:	S118494205
Year:	2016
GEPAID:	CAL000400044
Contact:	ANTHONY ANDREACCHI
Telephone:	6509653830
Mailing Name:	Not reported
Mailing Address:	1145 TERRA BELLA AVE STE A
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 940431831
Gen County:	San Bernardino
TSD EPA ID:	CAD059494310

AMARANTH MEDICAL (Continued) **S118494205**

TSD County: Santa Clara
Waste Category: Other organic solids
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.1855
Cat Decode: Not reported
Method Decode: Not reported
Facility County: San Bernardino

Click this hyperlink while viewing on your computer to access
3 additional CA_HAZNET: record(s) in the EDR Site Report.

C16 **FORMER TELEWAVE PROPERTY** **CA CPS-SLIC** **S121468905**
SSE **1155 TERRA BELLA AVE** **CA CUPA Listings** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.016 mi.
87 ft. **Site 3 of 5 in cluster C**

Relative:
Higher

Actual:
39 ft.

CPS-SLIC:
Region: STATE
Facility Status: **Open - Active**
Status Date: 08/13/2018
Global Id: T10000011881
Lead Agency: SANTA CLARA COUNTY LOP
Lead Agency Case Number: 2018-23s
Latitude: 37.40804
Longitude: -122.07668
Case Type: Cleanup Program Site
Case Worker: TLF
Local Agency: SANTA CLARA COUNTY LOP
RB Case Number: Not reported
File Location: Not reported
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

CUPA SANTA CLARA:
Facility Name: TELEWAVE INC
Region: SANTA CLARA
PE#: 2205
Program Description: GENERATES 100 KG YR TO <5 TONS/YR
Latitude: 37.408331
Longitude: -122.076898
Record ID: PR0313133
Facility ID: FA0203424

D17 **SHIPPEN PROPERTY** **CA LUST** **S103723196**
South **1175 TERRA BELLA** **CA HIST LUST** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043** **CA HIST CORTESE**
0.017 mi. **CA CERS**
88 ft. **Site 1 of 6 in cluster D**

Relative:
Higher

Actual:
39 ft.

LUST:

Lead Agency:	SANTA CLARA COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608502131
Global Id:	T0608502131
Latitude:	37.408247
Longitude:	-122.077099
Status:	Completed - Case Closed
Status Date:	07/17/2001
Case Worker:	UST
RB Case Number:	Not reported
Local Agency:	SANTA CLARA COUNTY LOP
File Location:	All Files are on GeoTracker or in the Local Agency Database
Local Case Number:	Not reported
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0608502131
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

Global Id:	T0608502131
Contact Type:	Local Agency Caseworker
Contact Name:	UST CASE WORKER
Organization Name:	SANTA CLARA COUNTY LOP
Address:	1555 Berger Drive, Suite 300
City:	SAN JOSE
Email:	Not reported
Phone Number:	4089183400

LUST:

Global Id:	T0608502131
Action Type:	Other
Date:	09/23/1998
Action:	Leak Reported

Global Id:	T0608502131
Action Type:	ENFORCEMENT
Date:	04/05/2001
Action:	Staff Letter - #30793

Global Id:	T0608502131
Action Type:	RESPONSE
Date:	05/24/2000
Action:	Verbal Communication

SHIPPEN PROPERTY (Continued) **S103723196**

Global Id: T0608502131
Action Type: RESPONSE
Date: 05/10/2001
Action: Correspondence

Global Id: T0608502131
Action Type: RESPONSE
Date: 08/22/1998
Action: Tank Removal Report / UST Sampling Report

Global Id: T0608502131
Action Type: RESPONSE
Date: 03/06/2001
Action: Monitoring Report - Quarterly

Global Id: T0608502131
Action Type: RESPONSE
Date: 01/04/2001
Action: Other Report / Document

Global Id: T0608502131
Action Type: ENFORCEMENT
Date: 07/17/2001
Action: Closure/No Further Action Letter

Global Id: T0608502131
Action Type: RESPONSE
Date: 01/21/1999
Action: Correspondence

Global Id: T0608502131
Action Type: RESPONSE
Date: 09/23/1998
Action: Unauthorized Release Form

Global Id: T0608502131
Action Type: RESPONSE
Date: 07/19/2000
Action: Soil and Water Investigation Workplan

Global Id: T0608502131
Action Type: RESPONSE
Date: 05/10/2001
Action: Other Report / Document

Global Id: T0608502131
Action Type: ENFORCEMENT
Date: 06/01/2000
Action: Staff Letter - #30790

LUST:
Global Id: T0608502131
Status: Completed - Case Closed
Status Date: 07/17/2001

Global Id: T0608502131
Status: Open - Case Begin Date

SHIPPEN PROPERTY (Continued) **S103723196**

Status Date: 08/13/1998

Global Id: T0608502131
Status: Open - Site Assessment
Status Date: 08/13/1998

Global Id: T0608502131
Status: Open - Site Assessment
Status Date: 09/10/1998

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 06S2W15M03f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 8/13/1998
Pollution Characterization Began: 9/10/1998
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 06S2W15M03F
Date Closed: 07/17/2001
EDR Link ID: 06S2W15M03F

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 06S2W15M03
Oversite Agency: SCVWD
Date Listed: 1998-11-02 00:00:00
Closed Date: 2001-07-17 00:00:00

HIST CORTESE:
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-2319

CERS TANKS:
Site ID: 232085
CERS ID: T0608502131
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker

SHIPPEN PROPERTY (Continued) **S103723196**

Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Local Agency Caseworker
Entity Name: UST CASE WORKER - SANTA CLARA COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: SAN JOSE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 4089183400

D18 **TEXACO** **CA LUST** **S105512840**
SSW **975 SHORELINE (STIERLIN RD) BLVD** **CA HIST LUST** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.022 mi.
115 ft. **Site 2 of 6 in cluster D**

Relative:
Higher

Actual:
39 ft.

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Pollution Characterization
Case Number: 06S2W15M02f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 6/15/1988
Pollution Characterization Began: 10/18/1988
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 06S2W15M02F
Date Closed: 07/01/2011
EDR Link ID: 06S2W15M02F

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 06S2W15M02
Oversite Agency: SCVWD
Date Listed: 1990-05-30 00:00:00
Closed Date: Not reported

D19 **TEXACO (CVX #21-1179)** **CA LUST** **S103880844**
SSW **975 SHORELINE BOULEVARD** **CA HIST CORTESE** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043** **CA CERS**
0.022 mi.
115 ft. **Site 3 of 6 in cluster D**

Relative:
Higher

Actual:
39 ft.

LUST:

Lead Agency:	SANTA CLARA COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608598655
Global Id:	T0608598655
Latitude:	37.408154057
Longitude:	-122.07768765
Status:	Completed - Case Closed
Status Date:	07/01/2011
Case Worker:	Not reported
RB Case Number:	20-017
Local Agency:	Not reported
File Location:	All Files are on GeoTracker or in the Local Agency Database
Local Case Number:	06S2W15M02f
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	MTBE / TBA / Other Fuel Oxygenates, Gasoline
Site History:	The Site is a former Texaco-branded service station located at the intersection of North Shoreline Boulevard and Terra Bella Avenue in Mountain View, California. Former station features include one 6,000-gallon gasoline underground storage tank (UST), four 4,000-gallon gasoline USTs, and one waste oil UST. In 1992, the six USTs, associated product piping, and dispensers were removed, and the Site was redeveloped as a restaurant. Twelve groundwater monitoring wells have been installed on or near the Site to-date. Eight groundwater monitoring wells (MW-22A, MW-22B, MW-22D, and MW-22L through MW-22P) were installed on-site, and four groundwater monitoring wells (MW-22E through MW-22H) were installed at off-site locations to assess the lateral extent of petroleum hydrocarbons in groundwater. Groundwater monitoring has been performed at the Site since 1988. Historically, groundwater flow at the Site has been towards the north.

LUST:

Global Id:	T0608598655
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0608598655
Action Type:	ENFORCEMENT
Date:	08/22/2008
Action:	Staff Letter - #802280

Global Id:	T0608598655
Action Type:	RESPONSE
Date:	05/03/1990
Action:	Monitoring Report - Quarterly

TEXACO (CVX #21-1179) (Continued) **S103880844**

Global Id: T0608598655
Action Type: RESPONSE
Date: 07/16/1991
Action: Other Report / Document

Global Id: T0608598655
Action Type: ENFORCEMENT
Date: 02/04/2009
Action: Staff Letter

Global Id: T0608598655
Action Type: ENFORCEMENT
Date: 06/10/2009
Action: Staff Letter

Global Id: T0608598655
Action Type: Other
Date: 07/17/1989
Action: Leak Reported

Global Id: T0608598655
Action Type: RESPONSE
Date: 07/12/1990
Action: Other Report / Document

Global Id: T0608598655
Action Type: RESPONSE
Date: 06/03/2005
Action: Other Report / Document

Global Id: T0608598655
Action Type: RESPONSE
Date: 10/15/1991
Action: Other Report / Document

Global Id: T0608598655
Action Type: RESPONSE
Date: 12/28/2010
Action: Other Report / Document

Global Id: T0608598655
Action Type: RESPONSE
Date: 01/01/1990
Action: Correspondence

Global Id: T0608598655
Action Type: RESPONSE
Date: 03/07/2000
Action: Monitoring Report - Quarterly

Global Id: T0608598655
Action Type: ENFORCEMENT
Date: 10/13/2009
Action: Staff Letter

Global Id: T0608598655
Action Type: ENFORCEMENT

TEXACO (CVX #21-1179) (Continued) **S103880844**

Date: 03/19/1995
Action: Referral to Local Agency - #43-1460

Global Id: T0608598655
Action Type: ENFORCEMENT
Date: 06/03/2005
Action: Other Report

Global Id: T0608598655
Action Type: RESPONSE
Date: 04/03/2009
Action: Soil and Water Investigation Report

Global Id: T0608598655
Action Type: RESPONSE
Date: 10/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0608598655
Action Type: RESPONSE
Date: 01/30/2009
Action: Monitoring Report - Quarterly

Global Id: T0608598655
Action Type: RESPONSE
Date: 04/30/2009
Action: Monitoring Report - Quarterly

Global Id: T0608598655
Action Type: RESPONSE
Date: 12/01/2009
Action: Soil and Water Investigation Workplan

Global Id: T0608598655
Action Type: RESPONSE
Date: 10/15/2001
Action: Monitoring Report - Quarterly

Global Id: T0608598655
Action Type: RESPONSE
Date: 06/24/2011
Action: Well Destruction Report

Global Id: T0608598655
Action Type: REMEDIATION
Date: 08/01/1993
Action: Excavation

Global Id: T0608598655
Action Type: ENFORCEMENT
Date: 12/04/2009
Action: Staff Letter

Global Id: T0608598655
Action Type: ENFORCEMENT
Date: 06/02/2010
Action: Staff Letter

TEXACO (CVX #21-1179) (Continued) **S103880844**

Global Id: T0608598655
Action Type: ENFORCEMENT
Date: 07/01/2011
Action: Closure/No Further Action Letter

Global Id: T0608598655
Action Type: ENFORCEMENT
Date: 12/20/2010
Action: Staff Letter

Global Id: T0608598655
Action Type: ENFORCEMENT
Date: 07/28/2010
Action: Staff Letter

Global Id: T0608598655
Action Type: ENFORCEMENT
Date: 01/24/2011
Action: Notification - Public Notice of Case Closure

Global Id: T0608598655
Action Type: ENFORCEMENT
Date: 03/29/2011
Action: Staff Letter

Global Id: T0608598655
Action Type: RESPONSE
Date: 04/30/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0608598655
Action Type: RESPONSE
Date: 04/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0608598655
Action Type: RESPONSE
Date: 08/10/2007
Action: Monitoring Report - Quarterly

Global Id: T0608598655
Action Type: RESPONSE
Date: 01/18/1991
Action: Tank Removal Report / UST Sampling Report

Global Id: T0608598655
Action Type: RESPONSE
Date: 04/09/1991
Action: Unauthorized Release Form

Global Id: T0608598655
Action Type: REMEDIATION
Date: 01/06/1994
Action: Soil Vapor Extraction (SVE)

Global Id: T0608598655
Action Type: RESPONSE

TEXACO (CVX #21-1179) (Continued) **S103880844**

Date: 05/31/2010
Action: Soil and Water Investigation Report

Global Id: T0608598655
Action Type: RESPONSE
Date: 10/30/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0608598655
Action Type: RESPONSE
Date: 07/23/2010
Action: Soil and Water Investigation Workplan

Global Id: T0608598655
Action Type: RESPONSE
Date: 12/27/2010
Action: Other Report / Document

Global Id: T0608598655
Action Type: RESPONSE
Date: 12/07/1992
Action: Interim Remedial Action Report

Global Id: T0608598655
Action Type: RESPONSE
Date: 04/26/1993
Action: Other Report / Document

Global Id: T0608598655
Action Type: REMEDIATION
Date: 08/09/1993
Action: Pump & Treat (P&T) Groundwater

Global Id: T0608598655
Action Type: RESPONSE
Date: 12/13/1993
Action: CAP/RAP - Feasibility Study Report

Global Id: T0608598655
Action Type: RESPONSE
Date: 09/20/1990
Action: Well Installation Report

Global Id: T0608598655
Action Type: RESPONSE
Date: 06/14/1990
Action: Other Workplan

Global Id: T0608598655
Action Type: RESPONSE
Date: 05/05/1994
Action: Other Report / Document

Global Id: T0608598655
Action Type: RESPONSE
Date: 06/13/1989
Action: Soil and Water Investigation Report

TEXACO (CVX #21-1179) (Continued) **S103880844**

Global Id: T0608598655
Action Type: Other
Date: 01/23/1989
Action: Leak Discovery

Global Id: T0608598655
Action Type: RESPONSE
Date: 02/28/2011
Action: Fact Sheets - Public Participation

Global Id: T0608598655
Action Type: RESPONSE
Date: 04/01/1994
Action: Other Report / Document

Global Id: T0608598655
Action Type: RESPONSE
Date: 07/24/1990
Action: Preliminary Site Assessment Report

Global Id: T0608598655
Action Type: ENFORCEMENT
Date: 02/07/2007
Action: Staff Letter - #7022

Global Id: T0608598655
Action Type: RESPONSE
Date: 06/30/2011
Action: Well Destruction Report

Global Id: T0608598655
Action Type: ENFORCEMENT
Date: 05/15/1990
Action: Notice of Responsibility - #40186

Global Id: T0608598655
Action Type: ENFORCEMENT
Date: 08/31/2001
Action: Staff Letter - #30787

Global Id: T0608598655
Action Type: ENFORCEMENT
Date: 05/04/2007
Action: Staff Letter - #7045

Global Id: T0608598655
Action Type: Other
Date: 12/08/1992
Action: Leak Stopped

LUST:
Global Id: T0608598655
Status: Completed - Case Closed
Status Date: 10/31/1988

Global Id: T0608598655
Status: Completed - Case Closed

TEXACO (CVX #21-1179) (Continued) **S103880844**

Status Date: 07/01/2011

Global Id: T0608598655
Status: Open - Case Begin Date
Status Date: 06/15/1988

Global Id: T0608598655
Status: Open - Site Assessment
Status Date: 06/15/1988

Global Id: T0608598655
Status: Open - Site Assessment
Status Date: 10/18/1988

Global Id: T0608598655
Status: Open - Verification Monitoring
Status Date: 10/31/1988

HIST CORTESE:
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-1460

CERS TANKS:
Site ID: 203229
CERS ID: T0608598655
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

D20 **EXXON** **CA SWEEPS UST** **S101594503**
SSW **975 N SHORELINE BLVD** **CA FID UST** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.022 mi.
115 ft. **Site 4 of 6 in cluster D**

Relative:
Higher

Actual:
39 ft.

SWEEPS UST:
Status: Not reported
Comp Number: 5783
Number: Not reported
Board Of Equalization: 44-000217
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported

EXXON (Continued) **S101594503**

SWRCB Tank Id: 43-005-005783-000001
Tank Status: Not reported
Capacity: 4000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: 6

Status: Not reported
Comp Number: 5783
Number: Not reported
Board Of Equalization: 44-000217
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 43-005-005783-000002
Tank Status: Not reported
Capacity: 4000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 5783
Number: Not reported
Board Of Equalization: 44-000217
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 43-005-005783-000003
Tank Status: Not reported
Capacity: 6000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 5783
Number: Not reported
Board Of Equalization: 44-000217
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 43-005-005783-000004
Tank Status: Not reported
Capacity: 4000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT

EXXON (Continued) **S101594503**

Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 5783
Number: Not reported
Board Of Equalization: 44-000217
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 43-005-005783-000005
Tank Status: Not reported
Capacity: 4000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 5783
Number: Not reported
Board Of Equalization: 44-000217
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 43-005-005783-000006
Tank Status: Not reported
Capacity: 550
Active Date: Not reported
Tank Use: OIL
STG: WASTE
Content: WASTE OIL
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 43002537
Regulated By: UTNKI
Regulated ID: 00005783
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 2137397612
Mail To: Not reported
Mailing Address: 975 STIERLIN RD
Mailing Address 2: Not reported
Mailing City,St,Zip: MOUNTAIN VIEW 94043
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

E21
SSW
< 1/8
0.023 mi.
119 ft.

TEXACO — **CA HIST UST** — **U001594422**
975 STIERLIN ROAD AND TERRA BELL — **N/A**
MOUNTAIN VIEW, CA 94043

Site 1 of 4 in cluster E

Relative:
Higher

Actual:
39 ft.

HIST UST:

File Number:	0002097D
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002097D.pdf
Region:	STATE
Facility ID:	00000005783
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	MOHAMMAD SAIED KOMPANIAN
Telephone:	2137397612
Owner Name:	TEXACO U.S.A.
Owner Address:	P.O. BOX 3756-3350 WILSHIRE BL
Owner City,St,Zip:	LOS ANGELES, CA 90010
Total Tanks:	0006
Tank Num:	001
Container Num:	1
Year Installed:	1959
Tank Capacity:	00004000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, 10
Tank Num:	002
Container Num:	2
Year Installed:	1959
Tank Capacity:	00004000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, 10
Tank Num:	003
Container Num:	3
Year Installed:	1971
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, 10
Tank Num:	004
Container Num:	4
Year Installed:	1959
Tank Capacity:	00004000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, 10
Tank Num:	005
Container Num:	5
Year Installed:	1959

TEXACO (Continued) **U001594422**

Tank Capacity:	00004000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, 10
Tank Num:	006
Container Num:	6
Year Installed:	1959
Tank Capacity:	00000550
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

F22 **COMM BLDG** **CA HIST UST** **U001594377**
NE **1080 LINDA VISTA AVE** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.025 mi.
134 ft. **Site 1 of 3 in cluster F**

Relative: HIST UST:
Lower

File Number:	000207EF
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000207EF.pdf
Region:	STATE
Facility ID:	00000054180
Facility Type:	Not reported
Other Type:	MFGR
Contact Name:	ROBERT EITREIM
Telephone:	4159613100
Owner Name:	ROBERT W. EITREIM
Owner Address:	639 CAMELLIA WAY
Owner City,St,Zip:	LOS ALTOS, CA 94022
Total Tanks:	0000
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	None

Actual:
34 ft.

Click here for Geo Tracker PDF:

F23 **COMM. BLDG** **CA SWEEPS UST** **S101623033**
NE **1080 LINDA VISTA AVE** **CA FID UST** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.025 mi.
134 ft. **Site 2 of 3 in cluster F**

Relative: **Lower**

Actual: **34 ft.**

SWEEPS UST:

Status:	Not reported
Comp Number:	54180
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	43-005-054180-000001
Tank Status:	Not reported
Capacity:	1
Active Date:	Not reported
Tank Use:	UNKNOWN
STG:	PRODUCT
Content:	UNKNOWN
Number Of Tanks:	1

CA FID UST:

Facility ID:	43001162
Regulated By:	UTNKI
Regulated ID:	00054180
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	4159613100
Mail To:	Not reported
Mailing Address:	1080 LINDA VISTA AVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	MOUNTAIN VIEW 94043
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

F24 **ROBB-JACK CORP.** **CA LUST** **S103880843**
NE **1080 LINDA VISTA AVE** **CA HIST LUST** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043** **CA HIST CORTESE**
0.025 mi. **CA CERS**
134 ft. **Site 3 of 3 in cluster F**

Relative: **Lower**

Actual: **34 ft.**

LUST:

Lead Agency:	SANTA CLARA COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608501111
Global Id:	T0608501111
Latitude:	37.409652
Longitude:	-122.0749
Status:	Completed - Case Closed
Status Date:	06/26/1996
Case Worker:	UST

ROBB-JACK CORP. (Continued) **S103880843**

RB Case Number: Not reported
Local Agency: SANTA CLARA COUNTY LOP
File Location: All Files are on GeoTracker or in the Local Agency Database
Local Case Number: Not reported
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0608501111
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

Global Id: T0608501111
Contact Type: Local Agency Caseworker
Contact Name: UST CASE WORKER
Organization Name: SANTA CLARA COUNTY LOP
Address: 1555 Berger Drive, Suite 300
City: SAN JOSE
Email: Not reported
Phone Number: 4089183400

LUST:
Global Id: T0608501111
Action Type: Other
Date: 05/08/1986
Action: Leak Reported

Global Id: T0608501111
Action Type: ENFORCEMENT
Date: 06/26/1996
Action: Closure/No Further Action Letter

Global Id: T0608501111
Action Type: RESPONSE
Date: 06/26/1996
Action: Other Report / Document

Global Id: T0608501111
Action Type: ENFORCEMENT
Date: 08/16/1990
Action: Notice of Responsibility - #40185

LUST:
Global Id: T0608501111
Status: Completed - Case Closed
Status Date: 06/26/1996

Global Id: T0608501111
Status: Open - Case Begin Date
Status Date: 05/08/1986

ROBB-JACK CORP. (Continued) **S103880843**

Global Id: T0608501111
Status: Open - Site Assessment
Status Date: 11/27/1989

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 06S2W15M01f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 11/27/1989
Pollution Characterization Began: 11/27/1989
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 06S2W15M01F
Date Closed: 06/26/1996
EDR Link ID: 06S2W15M01F

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 06S2W15M01
Oversite Agency: SCVWD
Date Listed: 1987-01-01 00:00:00
Closed Date: 1996-06-26 00:00:00

HIST CORTESE:
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-1120

CERS TANKS:
Site ID: 253558
CERS ID: T0608501111
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: UST CASE WORKER - SANTA CLARA COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: SAN JOSE
Affiliation State: CA
Affiliation Country: Not reported

ROBB-JACK CORP. (Continued) **S103880843**

Affiliation Zip: Not reported
Affiliation Phone: 4089183400

Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

E25 **HARRIS BROADCAST MICROWAVE OPR** **RCRA-SQG** **1000362638**
SSW **967 STIERLIN RD** **FINDS** **CAD981369150**
< 1/8 **MOUNTAIN VIEW, CA 94043** **ECHO**
0.030 mi.
158 ft. **Site 2 of 4 in cluster E**

Relative:
Higher

Actual:
39 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: HARRIS BROADCAST MICROWAVE OPR
Facility address: 967 STIERLIN RD
MOUNTAIN VIEW, CA 94043
EPA ID: CAD981369150
Mailing address: STIERLIN RD
MOUNTAIN VIEW, CA 94043
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: VANCE M BROWN & SONS, INC
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED

HARRIS BROADCAST MICROWAVE OPR (Continued) **1000362638**

Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002683061

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: 1000362638
Registry ID: 110002683061
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002683061

B26 **JASCO CHEMICAL CO** **SEMS-ARCHIVE** **1003879015**
ESE **1090 TERRA BELLA** **CAD981677107**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.036 mi.
189 ft. **Site 5 of 11 in cluster B**

Relative:
Higher

Actual:
38 ft.

SEMS Archive:

Site ID:	0902499
EPA ID:	CAD981677107
Cong District:	12
FIPS Code:	06085
FF:	N
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information
Latitude:	37.395
Longitude:	-122.046667

SEMS Archive Detail:

Region:	09
Site ID:	0902499
EPA ID:	CAD981677107
Site Name:	JASCO CHEMICAL CO
NPL:	N
FF:	N
OU:	00
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	1990-07-06 04:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse

Region:	09
Site ID:	0902499
EPA ID:	CAD981677107
Site Name:	JASCO CHEMICAL CO
NPL:	N
FF:	N
OU:	00
Action Code:	SI
Action Name:	SI
SEQ:	1
Start Date:	Not reported
Finish Date:	1990-07-06 04:00:00
Qual:	N
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0902499
EPA ID:	CAD981677107
Site Name:	JASCO CHEMICAL CO
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1986-10-01 04:00:00
Finish Date:	1986-10-01 04:00:00

JASCO CHEMICAL CO (Continued) **1003879015**

Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0902499
EPA ID:	CAD981677107
Site Name:	JASCO CHEMICAL CO
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	Not reported
Finish Date:	1986-12-01 05:00:00
Qual:	L
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0902499
EPA ID:	CAD981677107
Site Name:	JASCO CHEMICAL CO
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	2
Start Date:	Not reported
Finish Date:	1988-06-01 04:00:00
Qual:	L
Current Action Lead:	EPA Perf

B27 **JASCO CHEMICAL COMPANY** **CA LUST** **1000175658**
ESE **1090 TERRA BELLA AVE** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.036 mi.
189 ft. **Site 6 of 11 in cluster B**

Relative:
Higher

Actual:
38 ft.

LUST REG 2:

Region:	2
Facility Id:	43-1955
Facility Status:	Case Closed
Case Number:	43-1955
How Discovered:	Tank Closure
Leak Cause:	Structure Failure
Leak Source:	Tank
Date Leak Confirmed:	Not reported
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	Not reported
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

B28 **ADVANCED PHOTO CHEMICAL, INC.** **CA ENVIROSTOR** **S101594605**
ESE **1090 TERRA BELLA** **CA LUST** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043** **CA SWEEPS UST**
0.036 mi. **CA FID UST**
189 ft. **Site 7 of 11 in cluster B** **CA CERS**

Relative:
Higher

Actual:
38 ft.

ENVIROSTOR:

Facility ID:	43280111
Status:	Refer: RCRA
Status Date:	06/08/1994
Site Code:	Not reported
Site Type:	Historical
Site Type Detailed:	* Historical
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Berkeley
Assembly:	24
Senate:	13
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	37.40881
Longitude:	-122.0752
APN:	153-15-005
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	MICRO POLYMER ASSOC
Alias Type:	Alternate Name
Alias Name:	153-15-005
Alias Type:	APN
Alias Name:	43280111
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Discovery
Completed Date:	12/15/1981
Comments:	FACILITY IDENTIFIED INACTIVE SITE ID'D FROM POLK DIRECTORY
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

LUST:

Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)

ADVANCED PHOTO CHEMICAL, INC. (Continued) **S101594605**

Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608591780
Global Id:	T0608591780
Latitude:	37.4087619209795
Longitude:	-122.075273239426
Status:	Completed - Case Closed
Status Date:	10/01/1997
Case Worker:	UUU
RB Case Number:	43-1955
Local Agency:	SANTA CLARA COUNTY LOP
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Under Investigation
Potential Contaminants of Concern:	* Solvents
Site History:	Not reported

LUST:

Global Id:	T0608591780
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

Global Id:	T0608591780
Contact Type:	Local Agency Caseworker
Contact Name:	UST CASE WORKER
Organization Name:	SANTA CLARA COUNTY LOP
Address:	1555 Berger Drive, Suite 300
City:	SAN JOSE
Email:	Not reported
Phone Number:	4089183400

LUST:

Global Id:	T0608591780
Action Type:	Other
Date:	05/11/1988
Action:	Leak Reported

Global Id:	T0608591780
Action Type:	Other
Date:	05/11/1988
Action:	Leak Discovery

Global Id:	T0608591780
Action Type:	Other
Date:	05/11/1988
Action:	Leak Stopped

LUST:

Global Id:	T0608591780
Status:	Completed - Case Closed
Status Date:	10/01/1997

Global Id:	T0608591780

ADVANCED PHOTO CHEMICAL, INC. (Continued) **S101594605**

Status: Open - Case Begin Date
Status Date: 05/11/1988

SWEEPS UST:
Status: Not reported
Comp Number: 8417
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 43-005-008417-000001
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: 9

Status: Not reported
Comp Number: 8417
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 43-005-008417-000002
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 8417
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 43-005-008417-000003
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported

ADVANCED PHOTO CHEMICAL, INC. (Continued) **S101594605**

Comp Number:	8417
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	43-005-008417-000004
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	UNKNOWN
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	8417
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	43-005-008417-000005
Tank Status:	Not reported
Capacity:	1500
Active Date:	Not reported
Tank Use:	UNKNOWN
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	8417
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	43-005-008417-000006
Tank Status:	Not reported
Capacity:	4000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	LEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	8417
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported

ADVANCED PHOTO CHEMICAL, INC. (Continued) **S101594605**

Owner Tank Id: Not reported
SWRCB Tank Id: 43-005-008417-000007
Tank Status: Not reported
Capacity: 5000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 8417
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 43-005-008417-000008
Tank Status: Not reported
Capacity: 5000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 8417
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 43-005-008417-000009
Tank Status: Not reported
Capacity: 8000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 43011915
Regulated By: UTNKI
Regulated ID: 00008417
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4159684323
Mail To: Not reported
Mailing Address: 1090 TERRA BELLA
Mailing Address 2: Not reported
Mailing City,St,Zip: MOUNTAIN VIEW 94043
Contact: Not reported
Contact Phone: Not reported

ADVANCED PHOTO CHEMICAL, INC. (Continued) **S101594605**

DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

CERS TANKS:
Site ID: 233608
CERS ID: T0608591780
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: UST CASE WORKER - SANTA CLARA COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: SAN JOSE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 4089183400

Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

B29 **ADVANCED PHOTO CHEMICAL, INC.** **CA HIST UST** **U001594371**
ESE **1090 TERRA BELLA AVE** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.036 mi.
189 ft. **Site 8 of 11 in cluster B**

Relative:
Higher

Actual:
38 ft.

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000008417
Facility Type: Other
Other Type: PHOTO CHEM
Contact Name: FRANK RODRIGUES
Telephone: 4159684323
Owner Name: HARRY M. ANTHONY
Owner Address: P.O. BOX J
Owner City,St,Zip: MOUNTAIN VIEW, CA 94042
Total Tanks: 0000

Tank Num: 001
Container Num: ONE
Year Installed: 1966
Tank Capacity: 00010000
Tank Used for: PRODUCT

ADVANCED PHOTO CHEMICAL, INC. (Continued) **U001594371**

Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Groundwater Monitoring Well

Tank Num: 002
Container Num: TWO
Year Installed: 1966
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Groundwater Monitoring Well

Tank Num: 003
Container Num: THREE
Year Installed: 1966
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Groundwater Monitoring Well

Tank Num: 004
Container Num: FOUR
Year Installed: 1966
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Groundwater Monitoring Well

Tank Num: 005
Container Num: FIVE
Year Installed: 1966
Tank Capacity: 00001500
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Groundwater Monitoring Well

Tank Num: 006
Container Num: SIX
Year Installed: 1966
Tank Capacity: 00004000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Groundwater Monitoring Well

Tank Num: 007
Container Num: SEVEN
Year Installed: 1976
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Groundwater Monitoring Well

ADVANCED PHOTO CHEMICAL, INC. (Continued) **U001594371**

Tank Num:	008
Container Num:	EIGHT
Year Installed:	1976
Tank Capacity:	00005000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Groundwater Monitoring Well

Tank Num:	009
Container Num:	NINE
Year Installed:	1966
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Groundwater Monitoring Well

D30 **INTRA PACE INC** **CA CUPA Listings** **S121473952**
South **967 N SHORELINE BL** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94040**
0.049 mi.
261 ft. **Site 5 of 6 in cluster D**

Relative: **Higher**
Actual: **40 ft.**

CUPA SANTA CLARA:

Facility Name:	INTRA PACE INC
Region:	SANTA CLARA
PE#:	2240
Program Description:	GENERATES < 10 GAL/YR
Latitude:	37.407975
Longitude:	-122.077915
Record ID:	PR0383294
Facility ID:	FA0261380

D31 **RITA MEDICAL SYSTEMS INC** **CA CUPA Listings** **S121472566**
South **967 N SHORELINE BL** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.049 mi.
261 ft. **Site 6 of 6 in cluster D**

Relative: **Higher**
Actual: **40 ft.**

CUPA SANTA CLARA:

Facility Name:	RITA MEDICAL SYSTEMS INC
Region:	SANTA CLARA
PE#:	2205
Program Description:	GENERATES 100 KG YR TO <5 TONS/YR
Latitude:	37.407975
Longitude:	-122.077915
Record ID:	PR0371515
Facility ID:	FA0254652

B32 **KNIGHTSCOPE INC** **CA CUPA Listings** **S121473945**
ESE **1070 TERRA BELLA AV** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.055 mi.
289 ft. **Site 9 of 11 in cluster B**

Relative: CUPA SANTA CLARA:
Higher
Actual: Facility Name: KNIGHTSCOPE INC
38 ft. Region: SANTA CLARA
PE#: 2205
Program Description: GENERATES 100 KG YR TO <5 TONS/YR
Latitude: 37.408629
Longitude: -122.074846
Record ID: PR0383267
Facility ID: FA0261366

B33 **EDGE INNOVATIONS** **CA CUPA Listings** **S121472007**
ESE **1070 TERRA BELLA AV** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.055 mi.
289 ft. **Site 10 of 11 in cluster B**

Relative: CUPA SANTA CLARA:
Higher
Actual: Facility Name: EDGE INNOVATIONS
38 ft. Region: SANTA CLARA
PE#: 2201
Program Description: GENERATES WASTE OIL ONLY
Latitude: 37.408629
Longitude: -122.074639
Record ID: PR0366197
Facility ID: FA0251909

B34 **AR'S AUTOMOTIVE** **CA CUPA Listings** **S121471973**
ESE **1080 TERRA BELLA** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.055 mi.
289 ft. **Site 11 of 11 in cluster B**

Relative: CUPA SANTA CLARA:
Higher
Actual: Facility Name: AR'S AUTOMOTIVE
38 ft. Region: SANTA CLARA
PE#: 2205
Program Description: GENERATES 100 KG YR TO <5 TONS/YR
Latitude: 37.408629
Longitude: -122.074846
Record ID: PR0365976
Facility ID: FA0251754

E35 **ABBOTT LAB HOSPITAL PRODUCTS DIV** **CA CUPA Listings** **S121471209**
SW **1215 TERRA BELLA AV** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.056 mi.
297 ft. **Site 3 of 4 in cluster E**

Relative: CUPA SANTA CLARA:
Higher
Actual: Facility Name: ABBOTT LAB HOSPITAL PRODUCTS DIV
39 ft. Region: SANTA CLARA
PE#: 2205
Program Description: GENERATES 100 KG YR TO <5 TONS/YR
Latitude: 37.408437
Longitude: -122.079094
Record ID: PR0330246
Facility ID: FA0230242

C36 **FINE PITCH TECHNOLOGY INC** **CA CUPA Listings** **S121469083**
SE **980 LINDA VISTA AV** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.057 mi.
302 ft. **Site 4 of 5 in cluster C**

Relative: CUPA SANTA CLARA:
Higher
Actual: Facility Name: FINE PITCH TECHNOLOGY INC
40 ft. Region: SANTA CLARA
PE#: 2205
Program Description: GENERATES 100 KG YR TO <5 TONS/YR
Latitude: 37.40801
Longitude: -122.075671
Record ID: PR0317420
Facility ID: FA0204360

C37 **APPRION** **CA CUPA Listings** **S121474377**
SE **980 LINDA VISTA AV** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.057 mi.
302 ft. **Site 5 of 5 in cluster C**

Relative: CUPA SANTA CLARA:
Higher
Actual: Facility Name: APPRION
40 ft. Region: SANTA CLARA
PE#: 2240
Program Description: GENERATES < 10 GAL/YR
Latitude: 37.407707
Longitude: -122.075936
Record ID: PR0393590
Facility ID: FA0266555

E38 **EXXON** **CA HIST CORTESE** **S104396957**
SSW **925 SHORELINE** **N/A**
< 1/8 **MOUNTAIN VIEW, CA**
0.066 mi.
349 ft. **Site 4 of 4 in cluster E**

Relative: Higher
Actual: 40 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	43
Reg By:	LTNKA
Reg Id:	43-0739

G39 **TRANS TECH 2000** **EDR Hist Auto** **1021680182**
SE **973 LINDA VISTA AVE STE D** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.068 mi.
359 ft. **Site 1 of 12 in cluster G**

Relative: Higher
Actual: 40 ft.

EDR Hist Auto

Year:	Name:	Type:
1997	TRANS TECH 2000	Automotive Transmission Repair Shops

G40 **CGI PAINTING-CONTRACT GRP INC** **CA CUPA Listings** **S121469082**
SE **973 LINDA VISTA AV D** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.068 mi.
359 ft. **Site 2 of 12 in cluster G**

Relative: Higher
Actual: 40 ft.

CUPA SANTA CLARA:

Facility Name:	CGI PAINTING-CONTRACT GRP INC
Region:	SANTA CLARA
PE#:	2205
Program Description:	GENERATES 100 KG YR TO <5 TONS/YR
Latitude:	37.407894
Longitude:	-122.075333
Record ID:	PR0313860
Facility ID:	FA0204357

H41 **IRIDEX CORPORATION** **CA CUPA Listings** **S100928787**
WSW **1212 TERRA BELLA AV** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.069 mi.
362 ft. **Site 1 of 7 in cluster H**

Relative: Higher
Actual: 37 ft.

CUPA SANTA CLARA:

Facility Name:	IRIDEX CORPORATION
Region:	SANTA CLARA
PE#:	2205
Program Description:	GENERATES 100 KG YR TO <5 TONS/YR
Latitude:	37.408675
Longitude:	-122.078932
Record ID:	PR0365753
Facility ID:	FA0251638

H42 **ABBOTT CRITICAL CARE SYSTEMS** **CA CUPA Listings** **S121468909**
WSW **1212 TERRA BELLA AV 1255** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.069 mi.
362 ft. **Site 2 of 7 in cluster H**

Relative: **Higher**
Actual: **37 ft.**

CUPA SANTA CLARA:

Facility Name:	ABBOTT CRITICAL CARE SYSTEMS
Region:	SANTA CLARA
PE#:	2206
Program Description:	GENERATES 5 TO <25 TONS/YR
Latitude:	37.408675
Longitude:	-122.078932
Record ID:	PR0312796
Facility ID:	FA0203439

H43 **IRIDEX CORPORATION** **CA CERS HAZ WASTE** **S121771068**
WSW **1212 TERRA BELLA AVENUE** **CA CERS** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.069 mi.
362 ft. **Site 3 of 7 in cluster H**

Relative: **Higher**
Actual: **37 ft.**

CERS HAZ WASTE:

Site ID:	38539
CERS ID:	10344916
CERS Description:	Hazardous Waste Generator

Violations:

Site ID:	38539
Site Name:	Iridex Corporation
Violation Date:	09-15-2016
Citation:	40 CFR 1 262.34(d)(5)(ii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(ii)
Violation Description:	Failure to post the following information next to the telephone: (A) The name and telephone number of the emergency coordinator; (B) Location of fire extinguishers and spill control material, and, if present, fire alarm; and (C) The telephone number of the fire department, unless the facility has a direct alarm.
Violation Notes:	Emergency Information detail on emergency posting was inadequate.
Violation Division:	Santa Clara County Environmental Health
Violation Program:	HW
Violation Source:	CERS

Site ID:	38539
Site Name:	Iridex Corporation
Violation Date:	09-15-2016
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers 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:	Observed 1 x 1 gallon waste acetone container marked hazardous waste without required details.
Violation Division:	Santa Clara County Environmental Health
Violation Program:	HW
Violation Source:	CERS

IRIDEX CORPORATION (Continued) **S121771068**

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-15-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Onsite for routine inspection, noted the following: -Met with Scott LaVigne, facilties manager -Facility develops lasers for diabetic and glaucoma patients -Small amounts of hazardous waste acetone, isopropanol, paints, and universal wastes are generated; approx. 250 lbs. per year -Emergency Information is available but without spill equipment location detail; provided a blank ER poster today -Manifests available in binder; facility uses safety kleen -Spill Kit and Emergency Equipment is available Questions regarding this report, please contact Jeffrey M. Higbee at 408-918-4785. Recommendation: Make sure to keep hazardous waste storage cabinet organized and maintained to prevent a release or spill of hazardous waste.
Eval Division:	Santa Clara County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-27-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-05-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No Violations.
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	Jose Perez
Entity Title:	Not reported
Affiliation Address:	1212 Terra Bella Avenue
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	(650) 605-8868

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1212 Terra Bella Avenue
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported

IRIDEX CORPORATION (Continued) **S121771068**

Affiliation Zip:	94587
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	Santa Clara County Environmental Health
Entity Title:	Not reported
Affiliation Address:	1555 Berger Drive, Suite 300
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95112-2716
Affiliation Phone:	(408) 918-3400
Affiliation Type Desc:	Identification Signer
Entity Name:	Jose Perez
Entity Title:	Shippinf & ReceivingFacilities
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:	Iridex Corproation
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:	(650) 940-4700
Affiliation Type Desc:	Legal Owner
Entity Name:	IRIDEX Corporation
Entity Title:	Not reported
Affiliation Address:	1212 Terra Bella Avenue
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94587
Affiliation Phone:	(650) 940-4700
Affiliation Type Desc:	Parent Corporation
Entity Name:	IRIDEX Corporation
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	Geordie McKee
Entity Title:	Not reported
Affiliation Address:	Not reported

IRIDEX CORPORATION (Continued) **S121771068**

Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: United States
Affiliation Zip: Not reported
Affiliation Phone: (650) 321-3040

Affiliation Type Desc: Document Preparer
Entity Name: JOSE PEREZ
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

CERS TANKS:
Site ID: 38539
CERS ID: 10344916
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 38539
Site Name: Iridex Corporation
Violation Date: 09-15-2016
Citation: 40 CFR 1 262.34(d)(5)(ii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(ii)
Violation Description: Failure to post the following information next to the telephone: (A) The name and telephone number of the emergency coordinator; (B) Location of fire extinguishers and spill control material, and, if present, fire alarm; and (C) The telephone number of the fire department, unless the facility has a direct alarm.
Violation Notes: Emergency Information detail on emergency posting was inadequate.
Violation Division: Santa Clara County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 38539
Site Name: Iridex Corporation
Violation Date: 09-15-2016
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers 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: Observed 1 x 1 gallon waste acetone container marked hazardous waste without required details.
Violation Division: Santa Clara County Environmental Health
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-15-2016

IRIDEX CORPORATION (Continued) **S121771068**

Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Onsite for routine inspection, noted the following: -Met with Scott LaVigne, facilties manager -Facility develops lasers for diabetic and glaucoma patients -Small amounts of hazardous waste acetone, isopropanol, paints, and universal wastes are generated; approx. 250 lbs. per year -Emergency Information is available but without spill equipment location detail; provided a blank ER poster today -Manifests available in binder; facility uses safety kleen -Spill Kit and Emergency Equipment is available Questions regarding this report, please contact Jeffrey M. Higbee at 408-918-4785. Recommendation: Make sure to keep hazardous waste storage cabinet organized and maintained to prevent a release or spill of hazardous waste.
Eval Division: Santa Clara County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-27-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-05-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No Violations.
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Jose Perez
Entity Title: Not reported
Affiliation Address: 1212 Terra Bella Avenue
Affiliation City: Mountain View
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94043
Affiliation Phone: (650) 605-8868

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1212 Terra Bella Avenue
Affiliation City: Mountain View
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94587
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District

IRIDEX CORPORATION (Continued) **S121771068**

Entity Name:	Santa Clara County Environmental Health
Entity Title:	Not reported
Affiliation Address:	1555 Berger Drive, Suite 300
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95112-2716
Affiliation Phone:	(408) 918-3400
Affiliation Type Desc:	Identification Signer
Entity Name:	Jose Perez
Entity Title:	Shippinf & ReceivingFacilities
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:	Iridex Corproation
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:	(650) 940-4700
Affiliation Type Desc:	Legal Owner
Entity Name:	IRIDEX Corporation
Entity Title:	Not reported
Affiliation Address:	1212 Terra Bella Avenue
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94587
Affiliation Phone:	(650) 940-4700
Affiliation Type Desc:	Parent Corporation
Entity Name:	IRIDEX Corporation
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	Geordie McKee
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	United States
Affiliation Zip:	Not reported

IRIDEX CORPORATION (Continued) **S121771068**

Affiliation Phone:	(650) 321-3040
Affiliation Type Desc:	Document Preparer
Entity Name:	JOSE PEREZ
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

H44 **ABBOTT CRITICAL CARE & CONTROL SYSTEM** **RCRA NonGen / NLR** **1000343181**
WSW **1212 TERRA BELLA AVE** **FINDS** **CAD981977903**
< 1/8 **MOUNTAIN VIEW, CA 94043** **ECHO**
0.069 mi.
362 ft. **Site 4 of 7 in cluster H**

Relative:
Higher

Actual:
37 ft.

RCRA NonGen / NLR:

Date form received by agency:	03/04/1999
Facility name:	OXIMETRIX INC
Site name:	ABBOTT LABORATORIES
Facility address:	1212 TERRA BELLA AVE. MOUNTAIN VIEW, CA 94043
EPA ID:	CAD981977903
Mailing address:	755 JARVIS DR MORGAN HILL, CA 95037
Contact:	DAWN SEDAM
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	408-782-3425
Contact email:	Not reported
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	OXIMETRIX
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212

ABBOTT CRITICAL CARE & CONTROL SYSTEM (Continued) **1000343181**

Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/29/1997
Site name: OXIMETRIX INC
Classification: Not a generator, verified

Violation Status: No violations found

FINDS:

Registry ID: 110058249060

Environmental Interest/Information System
STATE MASTER

Registry ID: 110009540791

Environmental Interest/Information System
US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ABBOTT CRITICAL CARE & CONTROL SYSTEM (Continued) **1000343181**

ECHO:
Envid: 1000343181
Registry ID: 110009540791
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110009540791

H45 **ABBOTT LAB HOSPITAL PRODUCTS DIV** **CA CUPA Listings** **S121471208**
WSW **1212 TERRA BELLA AV** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.069 mi.
362 ft. **Site 5 of 7 in cluster H**

Relative:
Higher

Actual:
37 ft.

CUPA SANTA CLARA:
Facility Name: ABBOTT LAB HOSPITAL PRODUCTS DIV
Region: SANTA CLARA
PE#: 2205
Program Description: GENERATES 100 KG YR TO <5 TONS/YR
Latitude: 37.408675
Longitude: -122.078932
Record ID: PR0330245
Facility ID: FA0230241

I46 **PLANET LABS** **CA CERS HAZ WASTE** **S121758342**
ESE **1060 TERRA BELLA AVE** **CA HAZNET** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043** **CA CERS**
0.080 mi.
421 ft. **Site 1 of 4 in cluster I**

Relative:
Higher

Actual:
39 ft.

CERS HAZ WASTE:
Site ID: 273043
CERS ID: 10628437
CERS Description: Hazardous Waste Generator

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-19-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations.
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 273043
Facility Name: Google, Inc.
Env Int Type Code: HWG
Program ID: 10628437
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 37.408950
Longitude: -122.074420

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: April Anstey

PLANET LABS (Continued) **S121758342**

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:	Ed Baylosis
Entity Title:	Not reported
Affiliation Address:	1600 Amphitheatre Pkwy
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	(650) 253-4747
Affiliation Type Desc:	Identification Signer
Entity Name:	April Anstey
Entity Title:	Environmental Programs 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:	CUPA District
Entity Name:	Santa Clara County Environmental Health
Entity Title:	Not reported
Affiliation Address:	1555 Berger Drive, Suite 300
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95112-2716
Affiliation Phone:	(408) 918-3400
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1600 Amphitheatre Parkway
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Google, Inc.
Entity Title:	Not reported
Affiliation Address:	1600 Amphitheatre Parkway
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94043
Affiliation Phone:	(650) 253-0000

PLANET LABS (Continued) **S121758342**

Affiliation Type Desc:	Operator
Entity Name:	Google 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:	(650) 253-0000

Affiliation Type Desc:	Parent Corporation
Entity Name:	Planet Labs, 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:	Property Owner
Entity Name:	Rudy Sanremo
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	United States
Affiliation Zip:	Not reported
Affiliation Phone:	(650) 948-8078

HAZNET:

Facility Name:	PLANET LABS
envid:	S121758342
Year:	2017
GEPAID:	CAC002920847
Contact:	DAWN KOKES
Telephone:	4153126740
Mailing Name:	Not reported
Mailing Address:	346 9TH STREET
Mailing City,St,Zip:	SAN FRANCISCO, CA 94103
Gen County:	San Bernardino
TSD EPA ID:	CAD008302903
TSD County:	Los Angeles
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.02
Cat Decode:	Unspecified organic liquid mixture
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	San Bernardino

envid:	S121758342
Year:	2017
GEPAID:	CAC002920847
Contact:	DAWN KOKES

PLANET LABS (Continued) **S121758342**

Telephone:	4153126740
Mailing Name:	Not reported
Mailing Address:	346 9TH STREET
Mailing City,St,Zip:	SAN FRANCISCO, CA 94103
Gen County:	San Bernardino
TSD EPA ID:	CAD008302903
TSD County:	Los Angeles
Waste Category:	Other organic solids
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.04
Cat Decode:	Other organic solids
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	San Bernardino

envid:	S121758342
Year:	2017
GEPAID:	CAC002920847
Contact:	DAWN KOKES
Telephone:	4153126740
Mailing Name:	Not reported
Mailing Address:	346 9TH STREET
Mailing City,St,Zip:	SAN FRANCISCO, CA 94103
Gen County:	San Bernardino
TSD EPA ID:	CAD008302903
TSD County:	Los Angeles
Waste Category:	Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method:	Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.12
Cat Decode:	Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Method Decode:	Fuel Blending Prior To Energy Recovery At Another Site
Facility County:	San Bernardino

envid:	S121758342
Year:	2017
GEPAID:	CAC002920847
Contact:	DAWN KOKES
Telephone:	4153126740
Mailing Name:	Not reported
Mailing Address:	346 9TH STREET
Mailing City,St,Zip:	SAN FRANCISCO, CA 94103
Gen County:	San Bernardino
TSD EPA ID:	CAD008302903
TSD County:	Los Angeles
Waste Category:	Off-specification, aged or surplus organics
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.05
Cat Decode:	Off-specification, aged or surplus organics
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	San Bernardino

CERS TANKS:

Site ID:	273043
CERS ID:	10628437

PLANET LABS (Continued) **S121758342**

CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-19-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations.
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 273043
Facility Name: Google, Inc.
Env Int Type Code: HWG
Program ID: 10628437
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 37.408950
Longitude: -122.074420

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: April Anstey
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: Ed Baylosis
Entity Title: Not reported
Affiliation Address: 1600 Amphitheatre Pkwy
Affiliation City: Mountain View
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94043
Affiliation Phone: (650) 253-4747

Affiliation Type Desc: Identification Signer
Entity Name: April Anstey
Entity Title: Environmental Programs 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: CUPA District
Entity Name: Santa Clara County Environmental Health
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300

PLANET LABS (Continued) **S121758342**

Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95112-2716
Affiliation Phone:	(408) 918-3400
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1600 Amphitheatre Parkway
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Google, Inc.
Entity Title:	Not reported
Affiliation Address:	1600 Amphitheatre Parkway
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94043
Affiliation Phone:	(650) 253-0000
Affiliation Type Desc:	Operator
Entity Name:	Google 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:	(650) 253-0000
Affiliation Type Desc:	Parent Corporation
Entity Name:	Planet Labs, 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:	Property Owner
Entity Name:	Rudy Sanremo
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	United States
Affiliation Zip:	Not reported
Affiliation Phone:	(650) 948-8078

I47 **SKYBOX IMAGING INC** **CA CUPA Listings** **S113798876**
ESE **1061 TERRA BELLA AVE** **CA HAZNET** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.083 mi.
439 ft. **Site 2 of 4 in cluster I**

Relative:
Higher

Actual:
39 ft.

CUPA SANTA CLARA:

Facility Name:	GOOGLE, INC. SKYBOX 1
Region:	SANTA CLARA
PE#:	2205
Program Description:	GENERATES 100 KG YR TO <5 TONS/YR
Latitude:	37.40797
Longitude:	-122.07442
Record ID:	PR0422733
Facility ID:	FA0281636

HAZNET:

Facility Name:	GOOGLE INC.
envid:	S113798876
Year:	2017
GEPAID:	CAL000400962
Contact:	ED BAYLOSIS
Telephone:	6502534747
Mailing Name:	Not reported
Mailing Address:	1600 AMPHITHEATRE PKWY
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 94043
Gen County:	Santa Clara
TSD EPA ID:	CAD008302903
TSD County:	Los Angeles
Waste Category:	Other organic solids
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0025
Cat Decode:	Other organic solids
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Santa Clara

envid:	S113798876
Year:	2017
GEPAID:	CAL000400962
Contact:	ED BAYLOSIS
Telephone:	6502534747
Mailing Name:	Not reported
Mailing Address:	1600 AMPHITHEATRE PKWY
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 94043
Gen County:	Santa Clara
TSD EPA ID:	CAD008302903
TSD County:	Los Angeles
Waste Category:	Off-specification, aged or surplus organics
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.1475
Cat Decode:	Off-specification, aged or surplus organics
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Santa Clara

envid:	S113798876

SKYBOX IMAGING INC (Continued) **S113798876**

Year:	2017
GEPAID:	CAL000400962
Contact:	ED BAYLOSIS
Telephone:	6502534747
Mailing Name:	Not reported
Mailing Address:	1600 AMPHITHEATRE PKWY
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 94043
Gen County:	Santa Clara
TSD EPA ID:	CAD028409019
TSD County:	Los Angeles
Waste Category:	Waste oil and mixed oil
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.494
Cat Decode:	Waste oil and mixed oil
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Santa Clara

envid:	S113798876
Year:	2017
GEPAID:	CAL000400962
Contact:	ED BAYLOSIS
Telephone:	6502534747
Mailing Name:	Not reported
Mailing Address:	1600 AMPHITHEATRE PKWY
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 94043
Gen County:	Santa Clara
TSD EPA ID:	CAT080014079
TSD County:	Contra Costa
Waste Category:	Off-specification, aged or surplus inorganics
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.15
Cat Decode:	Off-specification, aged or surplus inorganics
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Santa Clara

envid:	S113798876
Year:	2017
GEPAID:	CAL000400962
Contact:	ED BAYLOSIS
Telephone:	6502534747
Mailing Name:	Not reported
Mailing Address:	1600 AMPHITHEATRE PKWY
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 94043
Gen County:	Santa Clara
TSD EPA ID:	CAT080014079
TSD County:	Contra Costa
Waste Category:	Off-specification, aged or surplus inorganics
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.15
Cat Decode:	Off-specification, aged or surplus inorganics
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

SKYBOX IMAGING INC (Continued) **S113798876**

Facility County: Santa Clara

Click this hyperlink while viewing on your computer to access
56 additional CA_HAZNET: record(s) in the EDR Site Report.

G48 **HACKETT PIPELINE INC** **CA CUPA Listings** **S121472275**
SE **963 LINDA VISTA AV** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.088 mi.
466 ft. **Site 3 of 12 in cluster G**

Relative: CUPA SANTA CLARA:
Higher
Actual: Facility Name: HACKETT PIPELINE INC
41 ft. Region: SANTA CLARA
PE#: 2201
Program Description: GENERATES WASTE OIL ONLY
Latitude: 37.407751
Longitude: -122.075334
Record ID: PR0368299
Facility ID: FA0252992

H49 **INTRABIOTICS PHARMACEUT INC** **CA CUPA Listings** **S121471642**
WSW **1245 TERRA BELLA AV** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.095 mi.
501 ft. **Site 6 of 7 in cluster H**

Relative: CUPA SANTA CLARA:
Higher
Actual: Facility Name: INTRABIOTICS PHARMACEUT INC
37 ft. Region: SANTA CLARA
PE#: 2205
Program Description: GENERATES 100 KG YR TO <5 TONS/YR
Latitude: 37.40878
Longitude: -122.07959
Record ID: PR0365442
Facility ID: FA0250527

H50 **GOOGLE, INC** **CA CUPA Listings** **S121472756**
WSW **1245 TERRA BELLA AV** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.095 mi.
501 ft. **Site 7 of 7 in cluster H**

Relative: CUPA SANTA CLARA:
Higher
Actual: Facility Name: GOOGLE, INC
37 ft. Region: SANTA CLARA
PE#: 2206
Program Description: GENERATES 5 TO <25 TONS/YR
Latitude: 37.40878
Longitude: -122.07959
Record ID: PR0373511
Facility ID: FA0255748

G51 **FARINON ELEC INC** **RCRA-SQG** **1000258253**
SSE **960 LINDA VISTA AVE** **FINDS** **CAD063565782**
< 1/8 **MOUNTAIN VIEW, CA 94043** **ECHO**
0.097 mi.
510 ft. **Site 4 of 12 in cluster G**

Relative: Higher

Actual: 41 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	FARINON ELEC INC
Facility address:	960 LINDA VISTA AVE MOUNTAIN VIEW, CA 94043
EPA ID:	CAD063565782
Mailing address:	LINDA VISTA AVE MOUNTAIN VIEW, CA 94043
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	HARRIS CORPORATION
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No

FARINON ELEC INC (Continued) **1000258253**

Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

FINDS:

Registry ID: 110002653584

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:	1000258253
Registry ID:	110002653584
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002653584

G52 **ABBOTT LAB HOSPITAL PRODUCTS DIV** **CA CUPA Listings** **S121471186**
SSE **960 LINDA VISTA** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.097 mi.
510 ft. **Site 5 of 12 in cluster G**

Relative:
Higher

Actual:
41 ft.

CUPA SANTA CLARA:

Facility Name:	ABBOTT LAB HOSPITAL PRODUCTS DIV
Region:	SANTA CLARA
PE#:	2205
Program Description:	GENERATES 100 KG YR TO <5 TONS/YR
Latitude:	37.407723
Longitude:	-122.075673
Record ID:	PR0330191
Facility ID:	FA0230194

G53 **ABLE ELECTRONICS CORP** **CA CUPA Listings** **S121469067**
SSE **950-960 LINDA VISTA AV** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.097 mi.
510 ft. **Site 6 of 12 in cluster G**

Relative: **Higher**
Actual: **41 ft.**

CUPA SANTA CLARA:

Facility Name:	ABLE ELECTRONICS CORP
Region:	SANTA CLARA
PE#:	2205
Program Description:	GENERATES 100 KG YR TO <5 TONS/YR
Latitude:	37.40758
Longitude:	-122.075673
Record ID:	PR0314996
Facility ID:	FA0204290

G54 **GOOGLE LLC - 946** **CA CERS HAZ WASTE** **S121770296**
SSE **946 LINDA VISTA AVE** **CA HAZNET** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043** **CA CERS**
0.097 mi.
510 ft. **Site 7 of 12 in cluster G**

Relative: **Higher**
Actual: **41 ft.**

CERS HAZ WASTE:

Site ID:	378594
CERS ID:	10705288
CERS Description:	Hazardous Waste Generator

Violations:

Site ID:	378594
Site Name:	Google LLC - 946
Violation Date:	06-21-2018
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:	Not reported
Violation Division:	Mountain View Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	06-21-2018
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-22-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No Violations.
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

GOOGLE LLC - 946 (Continued) **S121770296**

Coordinates:

Site ID:	378594
Facility Name:	Google LLC - 946
Env Int Type Code:	HMBP
Program ID:	10705288
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	37.407150
Longitude:	-122.076190

Affiliation:

Affiliation Type Desc:	Document Preparer
Entity Name:	Savuth Eng
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:	Savuth Eng
Entity Title:	EHS 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:	Parent Corporation
Entity Name:	Google 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:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1600 Amphitheatre Parkway
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Google LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported

GOOGLE LLC - 946 (Continued) **S121770296**

Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(650) 253-0000
Affiliation Type Desc:	Property Owner
Entity Name:	Google LLC
Entity Title:	Not reported
Affiliation Address:	1600 Amphitheatre Pkwy
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94043
Affiliation Phone:	(650) 253-0000
Affiliation Type Desc:	CUPA District
Entity Name:	Santa Clara County Environmental Health
Entity Title:	Not reported
Affiliation Address:	1555 Berger Drive, Suite 300
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95112-2716
Affiliation Phone:	(408) 918-3400
Affiliation Type Desc:	Environmental Contact
Entity Name:	Zack Foster
Entity Title:	Not reported
Affiliation Address:	1600 Amphitheatre Parkway
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	(408) 931-4806
Affiliation Type Desc:	Legal Owner
Entity Name:	Google LLC
Entity Title:	Not reported
Affiliation Address:	1600 Amphitheatre Parkway
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94043
Affiliation Phone:	(650) 253-0000

HAZNET:

Facility Name:	GOOGLE INC
envid:	S121770296
Year:	2017
GEPAID:	CAL000420231
Contact:	JOE CLARK
Telephone:	650210508
Mailing Name:	Not reported
Mailing Address:	1600 AMPHITHEATRE PKWY
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 94043
Gen County:	Santa Clara

GOOGLE LLC - 946 (Continued) **S121770296**

TSD EPA ID: CAD982042475
TSD County: Solano
Waste Category: Asbestos containing waste
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 1.38
Cat Decode: Asbestos containing waste
Method Decode: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County: Santa Clara

CERS TANKS:
Site ID: 378594
CERS ID: 10705288
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 378594
Site Name: Google LLC - 946
Violation Date: 06-21-2018
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: Not reported
Violation Division: Mountain View Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 06-21-2018
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-22-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No Violations.
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 378594
Facility Name: Google LLC - 946
Env Int Type Code: HMBP
Program ID: 10705288
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.

GOOGLE LLC - 946 (Continued) **S121770296**

Latitude: 37.407150
Longitude: -122.076190

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Savuth Eng
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: Savuth Eng
Entity Title: EHS 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: Parent Corporation
Entity Name: Google 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: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1600 Amphitheatre Parkway
Affiliation City: Mountain View
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94043
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Google 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: (650) 253-0000

Affiliation Type Desc: Property Owner
Entity Name: Google LLC
Entity Title: Not reported

GOOGLE LLC - 946 (Continued) **S121770296**

Affiliation Address:	1600 Amphitheatre Pkwy
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94043
Affiliation Phone:	(650) 253-0000
Affiliation Type Desc:	CUPA District
Entity Name:	Santa Clara County Environmental Health
Entity Title:	Not reported
Affiliation Address:	1555 Berger Drive, Suite 300
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95112-2716
Affiliation Phone:	(408) 918-3400
Affiliation Type Desc:	Environmental Contact
Entity Name:	Zack Foster
Entity Title:	Not reported
Affiliation Address:	1600 Amphitheatre Parkway
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	(408) 931-4806
Affiliation Type Desc:	Legal Owner
Entity Name:	Google LLC
Entity Title:	Not reported
Affiliation Address:	1600 Amphitheatre Parkway
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94043
Affiliation Phone:	(650) 253-0000

G55 **HARRIS BROADCAST MICROWAVE OPE** **CA HIST UST** **U001594386**
SSE **960 LINDA VISTA** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.097 mi.
510 ft. **Site 8 of 12 in cluster G**

Relative: HIST UST:
Higher

Actual: File Number:	00020A6F
41 ft. URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00020A6F.pdf
Region:	STATE
Facility ID:	00000048785
Facility Type:	Other
Other Type:	BUSINESS
Contact Name:	LAWRENCE R. KALIHER
Telephone:	4159699100
Owner Name:	VANCE M. BROWN & SONS INC.
Owner Address:	2747 PARK BLVD.
Owner City,St,Zip:	PALO ALTO, CA 94306
Total Tanks:	0001

HARRIS BROADCAST MICROWAVE OPE (Continued) **U001594386**

Tank Num:	001
Container Num:	#001
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

G56 **MARK MERRILL** **CA CUPA Listings** **S110373700**
SE **941 LINDA VISTA AV B** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.102 mi.
538 ft. **Site 9 of 12 in cluster G**

Relative:
Higher

Actual:
41 ft.

CUPA SANTA CLARA:

Facility Name:	MARK MERRILL
Region:	SANTA CLARA
PE#:	2240
Program Description:	GENERATES < 10 GAL/YR
Latitude:	37.407436
Longitude:	-122.075335
Record ID:	PR0378607
Facility ID:	FA0258533

G57 **GUARANTEED EXPRESS** **CA CUPA Listings** **S121472254**
SE **941 LINDA VISTA AV** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.102 mi.
538 ft. **Site 10 of 12 in cluster G**

Relative:
Higher

Actual:
41 ft.

CUPA SANTA CLARA:

Facility Name:	GUARANTEED EXPRESS
Region:	SANTA CLARA
PE#:	2205
Program Description:	GENERATES 100 KG YR TO <5 TONS/YR
Latitude:	37.407436
Longitude:	-122.075335
Record ID:	PR0368111
Facility ID:	FA0252863

G58 **VENEZIA MFG CO INC** **CA CUPA Listings** **S121472026**
SE **941 LINDA VISTA AV** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.102 mi.
538 ft. **Site 11 of 12 in cluster G**

Relative:
Higher

Actual:
41 ft.

CUPA SANTA CLARA:

Facility Name:	VENEZIA MFG CO INC
Region:	SANTA CLARA
PE#:	2202
Program Description:	GENERATES < 100 KG/YR
Latitude:	37.407436

VENEZIA MFG CO INC (Continued) **S121472026**

Longitude: -122.075335
Record ID: PR0366233
Facility ID: FA0251936

G59 **MARK MERRILL** **CA CERS HAZ WASTE** **S121786268**
SE **941 LINDA VISTA AVENUE UNIT B** **CA CERS** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.102 mi.
538 ft. **Site 12 of 12 in cluster G**

Relative:
Higher

Actual:
41 ft.

CERS HAZ WASTE:
Site ID: 46670
CERS ID: 10356586
CERS Description: Hazardous Waste Generator

Violations:
Site ID: 46670
Site Name: Mark Merrill
Violation Date: 02-09-2016
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Observed buckets open with used oil and some overfilled without labels near the hot tank washer. Also observed bead blast waste in a pan underneath the blaster machine. Clean up these waste accumulating and store in a closed container with proper hazardous waste label as needed. Note: The bead blast waste needs a hazardous determination.
Violation Division: Santa Clara County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 46670
Site Name: Mark Merrill
Violation Date: 02-09-2016
Citation: 22 CCR 12 66262.40(c) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(c)
Violation Description: Failure to determine if the waste generated is a hazardous waste and to maintain analysis results for three years.
Violation Notes: Please make a determination the bead blast waste whether it containers regulated heavy metals. A proper hazardous waste determination is required for all wastes.
Violation Division: Santa Clara County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 46670
Site Name: Mark Merrill
Violation Date: 02-09-2016
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Several 5 gallon containers of used oil in back of the shop were open without caps.
Violation Division: Santa Clara County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 46670

MARK MERRILL (Continued) **S121786268**

Site Name: Mark Merrill
Violation Date: 02-09-2016
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description: Failure to obtain and/or maintain an Active EPA ID.
Violation Notes: The facilities EPA Number is inactive CAL000293753; please call DTSC at 800-618-6942 to reactivate.
Violation Division: Santa Clara County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 46670
Site Name: Mark Merrill
Violation Date: 02-09-2016
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: 3 x 5 gallon containers of used oil were not properly labeled.
Violation Division: Santa Clara County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 46670
Site Name: Mark Merrill
Violation Date: 09-27-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to 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 12/07/2016. Gas cylinders
Violation Division: Mountain View Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-09-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Facility operates as a hobby shop; no billing or revenue generated per Ray Schubert. However, the site generates hazardous waste and is not a residence or household.
Eval Division: Santa Clara County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-07-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: All violations corrected
Eval Division: Mountain View Fire Department
Eval Program: HMRRP

MARK MERRILL (Continued) **S121786268**

Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-09-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-01-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-27-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Affiliation:
Affiliation Type Desc: Legal Owner
Entity Name: Mark Merrill
Entity Title: Not reported
Affiliation Address: 941 Linda Vista Ave., Unit B
Affiliation City: Mountain View
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94043
Affiliation Phone: (650) 365-8358

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 941 Linda Vista Ave., Unit B
Affiliation City: Mountain View
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94043
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: Mark Merrill
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported

MARK MERRILL (Continued) **S121786268**

Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: Santa Clara County Environmental Health
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: San Jose
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95112-2716
Affiliation Phone: (408) 918-3400

Affiliation Type Desc: Environmental Contact
Entity Name: Mark Merrill
Entity Title: Not reported
Affiliation Address: 941 Linda Vista Ave., Unit B
Affiliation City: Mountain View
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94043
Affiliation Phone: (650) 365-8358

Affiliation Type Desc: Identification Signer
Entity Name: Mark Merrill
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: Operator
Entity Name: Mark Merrill
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: (650) 964-1303

Affiliation Type Desc: Property Owner
Entity Name: Mark Merrill & Margaret Lynch
Entity Title: Not reported
Affiliation Address: 91 Wilburn Avenue
Affiliation City: Atherton
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94027
Affiliation Phone: (650) 283-6404

CERS TANKS:
Site ID: 46670
CERS ID: 10356586

MARK MERRILL (Continued) **S121786268**

CERS Description: Chemical Storage Facilities

Violations:

Site ID: 46670
Site Name: Mark Merrill
Violation Date: 02-09-2016
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Observed buckets open with used oil and some overfilled without labels near the hot tank washer. Also observed bead blast waste in a pan underneath the blaster machine. Clean up these waste accumulating and store in a closed container with proper hazardous waste label as needed. Note: The bead blast waste needs a hazardous determination.
Violation Division: Santa Clara County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 46670
Site Name: Mark Merrill
Violation Date: 02-09-2016
Citation: 22 CCR 12 66262.40(c) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(c)
Violation Description: Failure to determine if the waste generated is a hazardous waste and to maintain analysis results for three years.
Violation Notes: Please make a determination the bead blast waste whether it containers regulated heavy metals. A proper hazardous waste determination is required for all wastes.
Violation Division: Santa Clara County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 46670
Site Name: Mark Merrill
Violation Date: 02-09-2016
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Several 5 gallon containers of used oil in back of the shop were open without caps.
Violation Division: Santa Clara County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 46670
Site Name: Mark Merrill
Violation Date: 02-09-2016
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description: Failure to obtain and/or maintain an Active EPA ID.
Violation Notes: The facilities EPA Number is inactive CAL000293753; please call DTSC at 800-618-6942 to reactivate.
Violation Division: Santa Clara County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 46670
Site Name: Mark Merrill

MARK MERRILL (Continued) **S121786268**

Violation Date: 02-09-2016
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: 3 x 5 gallon containers of used oil were not properly labeled.
Violation Division: Santa Clara County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 46670
Site Name: Mark Merrill
Violation Date: 09-27-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to 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 12/07/2016. Gas cylinders
Violation Division: Mountain View Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-09-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Facility operates as a hobby shop; no billing or revenue generated per Ray Schubert. However, the site generates hazardous waste and is not a residence or household.
Eval Division: Santa Clara County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-07-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: All violations corrected
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-09-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-01-2016

MARK MERRILL (Continued) **S121786268**

Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-27-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Affiliation:
Affiliation Type Desc: Legal Owner
Entity Name: Mark Merrill
Entity Title: Not reported
Affiliation Address: 941 Linda Vista Ave., Unit B
Affiliation City: Mountain View
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94043
Affiliation Phone: (650) 365-8358

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 941 Linda Vista Ave., Unit B
Affiliation City: Mountain View
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94043
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: Mark Merrill
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 Clara County Environmental Health
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: San Jose
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95112-2716
Affiliation Phone: (408) 918-3400

MARK MERRILL (Continued) **S121786268**

Affiliation Type Desc:	Environmental Contact
Entity Name:	Mark Merrill
Entity Title:	Not reported
Affiliation Address:	941 Linda Vista Ave., Unit B
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	(650) 365-8358

Affiliation Type Desc:	Identification Signer
Entity Name:	Mark Merrill
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:	Operator
Entity Name:	Mark Merrill
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:	(650) 964-1303

Affiliation Type Desc:	Property Owner
Entity Name:	Mark Merrill & Margaret Lynch
Entity Title:	Not reported
Affiliation Address:	91 Wilburn Avenue
Affiliation City:	Atherton
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94027
Affiliation Phone:	(650) 283-6404

I60 **GOOGLE, INC. - SKYBOX 2** **CA CUPA Listings** **S121472006**
ESE **1049 TERRA BELLA AV** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.106 mi.
561 ft. **Site 3 of 4 in cluster I**

Relative:
Higher

Actual:
39 ft.

CUPA SANTA CLARA:

Facility Name:	GOOGLE, INC. - SKYBOX 2
Region:	SANTA CLARA
PE#:	2205
Program Description:	GENERATES 100 KG YR TO <5 TONS/YR
Latitude:	37.408291
Longitude:	-122.074432
Record ID:	PR0366196
Facility ID:	FA0251908

I61 **SAVIANO COMPANY, INC.** **CA CUPA Listings** **S121472782**
ESE **1020 TERRA BELLA AV** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.110 mi.
580 ft. **Site 4 of 4 in cluster I**

Relative:
Higher

Actual:
39 ft.

CUPA SANTA CLARA:

Facility Name:	SAVIANO COMPANY, INC.
Region:	SANTA CLARA
PE#:	2205
Program Description:	GENERATES 100 KG YR TO <5 TONS/YR
Latitude:	37.408629
Longitude:	-122.073603
Record ID:	PR0373693
Facility ID:	FA0255903

J62 **GOOGLE LLC - TB55** **CA CERS HAZ WASTE** **S121471210**
West **1255 TERRA BELLA AV** **CA CUPA Listings** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043** **CA CERS**
0.117 mi.
618 ft. **Site 1 of 6 in cluster J**

Relative:
Lower

Actual:
36 ft.

CERS HAZ WASTE:

Site ID:	120245
CERS ID:	10468447
CERS Description:	Hazardous Waste Generator

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-05-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations.
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-30-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No Violations.
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Coordinates:

Site ID:	120245
Facility Name:	Google LLC - TB55
Env Int Type Code:	HMBP
Program ID:	10468447
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	37.408980
Longitude:	-122.080310

Affiliation:

Affiliation Type Desc:	Identification Signer
Entity Name:	Savuth Eng

GOOGLE LLC - TB55 (Continued) **S121471210**

Entity Title:	EHS 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:	Parent Corporation
Entity Name:	Google 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:	Savuth Eng
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:	1600 Amphitheatre Parkway
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	Ed Baylosis
Entity Title:	Not reported
Affiliation Address:	1600 Amphitheatre Parkway
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	(650) 253-4747
Affiliation Type Desc:	CUPA District
Entity Name:	Santa Clara County Environmental Health
Entity Title:	Not reported
Affiliation Address:	1555 Berger Drive, Suite 300
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95112-2716
Affiliation Phone:	(408) 918-3400

GOOGLE LLC - TB55 (Continued) **S121471210**

Affiliation Type Desc: Legal Owner
Entity Name: Google LLC
Entity Title: Not reported
Affiliation Address: 1600 Amphitheatre Parkway
Affiliation City: Mountain View
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94043
Affiliation Phone: (650) 253-0000

Affiliation Type Desc: Operator
Entity Name: Google 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: (650) 253-0000

CUPA SANTA CLARA:
Facility Name: GOOGLE LLC - TB55
Region: SANTA CLARA
PE#: 2202
Program Description: GENERATES < 100 KG/YR
Latitude: 37.408909
Longitude: -122.079674
Record ID: PR0330247
Facility ID: FA0230243

CERS TANKS:
Site ID: 120245
CERS ID: 10468447
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-05-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations.
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-30-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No Violations.
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Coordinates:

GOOGLE LLC - TB55 (Continued) **S121471210**

Site ID:	120245
Facility Name:	Google LLC - TB55
Env Int Type Code:	HMBP
Program ID:	10468447
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	37.408980
Longitude:	-122.080310

Affiliation:

Affiliation Type Desc:	Identification Signer
Entity Name:	Savuth Eng
Entity Title:	EHS 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:	Parent Corporation
Entity Name:	Google 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:	Savuth Eng
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:	1600 Amphitheatre Parkway
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	Ed Baylosis
Entity Title:	Not reported
Affiliation Address:	1600 Amphitheatre Parkway
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported

GOOGLE LLC - TB55 (Continued) **S121471210**

Affiliation Zip:	94043
Affiliation Phone:	(650) 253-4747
Affiliation Type Desc:	CUPA District
Entity Name:	Santa Clara County Environmental Health
Entity Title:	Not reported
Affiliation Address:	1555 Berger Drive, Suite 300
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95112-2716
Affiliation Phone:	(408) 918-3400
Affiliation Type Desc:	Legal Owner
Entity Name:	Google LLC
Entity Title:	Not reported
Affiliation Address:	1600 Amphitheatre Parkway
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94043
Affiliation Phone:	(650) 253-0000
Affiliation Type Desc:	Operator
Entity Name:	Google 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:	(650) 253-0000

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63 **WEMCO LANDSCAPES** **CA CUPA Listings** **S121472024**
SE **915 LINDA VISTA #B** **N/A**
< 1/8 **MOUNTAIN VIEW, CA 94043**
0.120 mi.
635 ft.

Relative:
Higher

Actual:
42 ft.

CUPA SANTA CLARA:

Facility Name:	WEMCO LANDSCAPES
Region:	SANTA CLARA
PE#:	2201
Program Description:	GENERATES WASTE OIL ONLY
Latitude:	37.407063
Longitude:	-122.075337
Record ID:	PR0366227
Facility ID:	FA0251932

K64 **SCR-SPECTRA-1250 W MIDDLE** **CA Cortese** **S105025093**
SW **1250 MIDDLEFIELD** **CA ENF** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94042** **CA HIST CORTESE**
0.134 mi. **CA CIWQS**
705 ft. **Site 1 of 5 in cluster K**

Relative:
Higher

Actual:
40 ft.

CORTESE:

Region:	CORTESE
Envirostor 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:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Cease Desist Orders & Cleanup Abatement Orders

Region:	CORTESE
Envirostor 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:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Cease Desist Orders & Cleanup Abatement Orders

ENF:

Region:	2
Facility Id:	258107
Agency Name:	Not reported
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Not reported
# Of Agencies:	Not reported
Place Latitude:	Not reported

SCR-SPECTRA-1250 W MIDDLE (Continued) **S105025093**

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:	Enf Action
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:	Not reported
Reg Measure Id:	Not reported
Reg Measure Type:	Not reported
Region:	Not reported
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:	Not reported
Status Date:	Not reported
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:	Not reported
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Not reported
Enforcement Id(EID):	222541
Region:	2
Order / Resolution Number:	89-020

SCR-SPECTRA-1250 W MIDDLE (Continued) **S105025093**

Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	01/18/1989
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 2 438169N01
Description:	ENF ORDER
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

Region:	2
Facility Id:	258107
Agency Name:	Not reported
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Not reported
# Of Agencies:	Not reported
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:	Enf Action
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

SCR-SPECTRA-1250 W MIDDLE (Continued) **S105025093**

WDID:	Not reported
Reg Measure Id:	Not reported
Reg Measure Type:	Not reported
Region:	Not reported
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:	Not reported
Status Date:	Not reported
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:	Not reported
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Not reported
Enforcement Id(EID):	222518
Region:	2
Order / Resolution Number:	91-02502
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	02/20/1991
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 - 2 438169N01
Description:	SCR-FINAL REMEDIATION PLAN FOR CLEANUP OF POLLUTED SOIL & GW.
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
Region:	2
Facility Id:	258107
Agency Name:	Not reported
Place Type:	Facility
Place Subtype:	Not reported

SCR-SPECTRA-1250 W MIDDLE (Continued) **S105025093**

Facility Type:	Industrial
Agency Type:	Not reported
# Of Agencies:	Not reported
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:	Enf Action
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:	Not reported
Reg Measure Id:	Not reported
Reg Measure Type:	Not reported
Region:	Not reported
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:	Not reported
Status Date:	Not reported
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:	Not reported
Individual/General:	Not reported
Fee Code:	Not reported

SCR-SPECTRA-1250 W MIDDLE (Continued) **S105025093**

Direction/Voice:	Not reported
Enforcement Id(EID):	222842
Region:	2
Order / Resolution Number:	87-003
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	01/15/1987
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 2 438169N01
Description:	ORDER FOR INVESTIGATION AND REMEDIATION OF POLLUTED SOIL AND GROUNDWATER.
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

Region:	2
Facility Id:	258107
Agency Name:	Not reported
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Not reported
# Of Agencies:	Not reported
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:	Enf Action
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

SCR-SPECTRA-1250 W MIDDLE (Continued) **S105025093**

Facility Waste Type 4:	Not reported
Program:	Not reported
Program Category1:	Not reported
Program Category2:	UNREGS
# Of Programs:	Not reported
WDID:	Not reported
Reg Measure Id:	Not reported
Reg Measure Type:	Not reported
Region:	Not reported
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:	Not reported
Status Date:	Not reported
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:	Not reported
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Not reported
Enforcement Id(EID):	223062
Region:	2
Order / Resolution Number:	94-18402
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	12/14/1994
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 - 2 438169N01
Description:	SCR-AMENDMENT.
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

SCR-SPECTRA-1250 W MIDDLE (Continued) **S105025093**

HIST CORTESE:
Region: CORTESE
Facility County Code: 43
Reg By: WBC&D
Reg Id: 2 438169NO1

CIWQS:
Agency: Spectra Physics
Agency Address: Po Box 7013, Mountain View, CA 94039
Place/Project Type: Other
SIC/NAICS: Not reported
Region: 2
Program: UNREGS
Regulatory Measure Status: Historical
Regulatory Measure Type: WDR
Order Number: 86-010
WDID: 2 438169N01
NPDES Number: Not reported
Adoption Date: 02/19/1986
Effective Date: 02/19/1986
Termination Date: Not reported
Expiration/Review Date: 02/19/1989
Design Flow: 0.5
Major/Minor: Not reported
Complexity: A
TTWQ: 1
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: Not reported
Longitude: Not reported

L65 **SCCTA - NORTH COACH DIVISION** **CA HIST LUST** **S105512838**
North **1235 L'AVENIDA AVE** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA**
0.137 mi.
722 ft. **Site 1 of 8 in cluster L**

Relative: HIST LUST SANTA CLARA:
Lower Region: SANTA CLARA
Actual: Region Code: 2
30 ft. SCVWD ID: 06S2W15E03
Oversite Agency: SFRWQCB
Date Listed: 1989-01-01 00:00:00
Closed Date: 1997-09-11 00:00:00

L66 **SANTA CLARA COUNT TD NOR** **CA HIST CORTESE** **S105025087**
North **1235 L AVENIDA** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA**
0.137 mi.
722 ft. **Site 2 of 8 in cluster L**

Relative: HIST CORTESE:
Lower Region: CORTESE
Actual: Facility County Code: 43
30 ft. Reg By: LTNKA

SANTA CLARA COUNT TD NOR (Continued) **S105025087**

Reg Id: 43-2185

Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-2183

Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-2184

L67 **RUDOLPH AND SLETTEN** **CA HIST CORTESE** **S105025090**
North **1235 L AVENIDA** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA**
0.137 mi.
722 ft. **Site 3 of 8 in cluster L**

Relative: HIST CORTESE:
Lower Region: CORTESE
Actual: Facility County Code: 43
30 ft. Reg By: LTNKA
Reg Id: 43-1156

L68 **SCVTA 1235 L'AVENIDA** **CA CPS-SLIC** **S106235046**
North **1235/1241 L'AVENIDA AVE.** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.137 mi.
722 ft. **Site 4 of 8 in cluster L**

Relative: CPS-SLIC:
Lower Region: STATE
Actual: **Facility Status:** **Completed - Case Closed**
30 ft. Status Date: 03/01/2005
Global Id: SL0608505385
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.411806
Longitude: -122.074113
Case Type: Cleanup Program Site
Case Worker: UUU
Local Agency: Not reported
RB Case Number: 43S0284
File Location: Regional Board
Potential Media Affected: Not reported
Potential Contaminants of Concern: Trichloroethylene (TCE)
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

SLIC REG 2:
Region: 2
Facility ID: 43S0284
Facility Status: Post remedial action monitoring
Date Closed: Not reported
Local Case #: Not reported

SCVTA 1235 L'AVENIDA (Continued) **S106235046**

How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

L69 **NORTH DIVISION** **CA HIST UST** **S105025086**
North **1235 L AVENIDA** **CA HIST CORTESE** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94040** **CA NPDES**
0.137 mi. **CA WDS**
722 ft. **Site 5 of 8 in cluster L** **CA CIWQS**

Relative:
Lower

Actual:
30 ft.

HIST UST:
File Number: 00020874
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00020874.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

HIST CORTESE:
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-1243

NPDES:
Facility Status: Active
NPDES Number: CAS000001
Region: 2
Agency Number: 0
Regulatory Measure ID: 183921
Place ID: Not reported
Order Number: 97-03-DWQ
WDID: 2 43I006811

NORTH DIVISION (Continued) **S105025086**

Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	05/07/1992
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	3331 N 1st St Bldg B
Discharge Name:	Santa Clara Trans Authority
Discharge City:	San Jose
Discharge State:	California
Discharge Zip:	95134
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	183921
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 43I006811
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	05/07/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Santa Clara Trans Authority
Discharge Address:	3331 N 1st St Bldg B
Discharge City:	San Jose
Discharge State:	California
Discharge Zip:	95134
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

NORTH DIVISION (Continued) **S105025086**

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:	2
Regulatory Measure ID:	183921
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 43I006811
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

NORTH DIVISION (Continued) **S105025086**

Received Date:	05/09/2008
Processed Date:	05/07/1992
Status:	Active
Status Date:	05/07/1992
Place Size:	15.4
Place Size Unit:	Acres
Contact:	Luis Morales
Contact Title:	Maintenance Superentendant
Contact Phone:	408-546-7310
Contact Phone Ext:	Not reported
Contact Email:	luis.morales@vta.org
Operator Name:	Santa Clara Trans Authority
Operator Address:	3331 N 1st St Bldg B
Operator City:	San Jose
Operator State:	California
Operator Zip:	95134
Operator Contact:	Karly Hutchinson
Operator Contact Title:	EH&S Specialist
Operator Contact Phone:	408-321-7079
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	karly.hutchinson@vta.org
Operator Type:	Special District
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	408-464-7942
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Stevens Creek
Certifier:	Inez Evans
Certifier Title:	Risk Manager
Certification Date:	26-JUL-16
Primary Sic:	4111-Local and Suburban Transit
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

NORTH DIVISION (Continued) **S105025086**

Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	2 43I006811
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	05/07/1992
Operator Name:	Santa Clara Trans Authority
Operator Address:	3331 N 1st St Bldg B
Operator City:	San Jose
Operator State:	California
Operator Zip:	95134

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	183921
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 43I006811
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	05/07/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Santa Clara Trans Authority
Discharge Address:	3331 N 1st St Bldg B
Discharge City:	San Jose
Discharge State:	California
Discharge Zip:	95134
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

NORTH DIVISION (Continued) **S105025086**

Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	183921
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 43I006811
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported

NORTH DIVISION (Continued) **S105025086**

Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	05/07/1992
Status:	Active
Status Date:	05/07/1992
Place Size:	15.4
Place Size Unit:	Acres
Contact:	Luis Morales
Contact Title:	Maintenance Superentendant
Contact Phone:	408-546-7310
Contact Phone Ext:	Not reported
Contact Email:	luis.morales@vta.org
Operator Name:	Santa Clara Trans Authority
Operator Address:	3331 N 1st St Bldg B
Operator City:	San Jose
Operator State:	California
Operator Zip:	95134
Operator Contact:	Karly Hutchinson
Operator Contact Title:	EH&S Specialist
Operator Contact Phone:	408-321-7079
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	karly.hutchinson@vta.org
Operator Type:	Special District
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	408-464-7942
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N

NORTH DIVISION (Continued) **S105025086**

Receiving Water Name:	Stevens Creek
Certifier:	Inez Evans
Certifier Title:	Risk Manager
Certification Date:	26-JUL-16
Primary Sic:	4111-Local and Suburban Transit
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

WDS:

Facility ID:	San Francisco Bay 43I006811
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	2
Facility Telephone:	4159382314
Facility Contact:	STAHLER RICHARD
Agency Name:	SANTA CLARA VALLEY TRANS AUTH
Agency Address:	3331 N 1st St
Agency City,St,Zip:	San Jose 951341906
Agency Contact:	DELFINO AMBROSE
Agency Telephone:	4083215594
Agency Type:	County
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

NORTH DIVISION (Continued) **S105025086**

CIWQS:

Agency:	Santa Clara Trans Authority
Agency Address:	3331 N 1st St Bldg B, San Jose, CA 95134
Place/Project Type:	Industrial - Local and Suburban Transit
SIC/NAICS:	4111
Region:	2
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	2 43I006811
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	05/07/1992
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	1
Violations within 5 years:	0
Latitude:	37.41329
Longitude:	-122.07437

L70 **SANTA CLARA VALLEY TRANSPORTAT** **CA LUST** **S103626342**
North **1235 L'AVENIDA** **CA SWEEPS UST** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043** **CA EMI**
0.137 mi.
722 ft. **Site 6 of 8 in cluster L**

Relative: **Lower**

Actual: **30 ft.**

LUST:

Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608501221
Global Id:	T0608501221
Latitude:	37.4127040510034
Longitude:	-122.074571727509
Status:	Completed - Case Closed
Status Date:	09/11/1997
Case Worker:	UUU
RB Case Number:	43-1243
Local Agency:	SANTA CLARA COUNTY LOP
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Waste Oil / Motor / Hydraulic / Lubricating
Site History:	Not reported

LUST:

Global Id:	T0608501221
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

SANTA CLARA VALLEY TRANSPORTAT (Continued) **S103626342**

Global Id: T0608501221
Contact Type: Local Agency Caseworker
Contact Name: UST CASE WORKER
Organization Name: SANTA CLARA COUNTY LOP
Address: 1555 Berger Drive, Suite 300
City: SAN JOSE
Email: Not reported
Phone Number: 4089183400

LUST:
Global Id: T0608501221
Action Type: Other
Date: 08/25/1986
Action: Leak Reported

Global Id: T0608501221
Action Type: ENFORCEMENT
Date: 09/11/1997
Action: Closure/No Further Action Letter

Global Id: T0608501221
Action Type: RESPONSE
Date: 01/01/2003
Action: Other Report / Document

Global Id: T0608501221
Action Type: RESPONSE
Date: 09/11/1997
Action: Other Report / Document

Global Id: T0608501221
Action Type: Other
Date: 08/25/1986
Action: Leak Discovery

Global Id: T0608501221
Action Type: Other
Date: 08/25/1986
Action: Leak Stopped

LUST:
Global Id: T0608501221
Status: Completed - Case Closed
Status Date: 09/11/1997

Global Id: T0608501221
Status: Open - Case Begin Date
Status Date: 08/25/1986

Global Id: T0608501221
Status: Open - Remediation
Status Date: 03/01/1990

Global Id: T0608501221
Status: Open - Site Assessment
Status Date: 11/30/1988

SANTA CLARA VALLEY TRANSPORTAT (Continued) **S103626342**

Global Id: T0608501221
Status: Open - Site Assessment
Status Date: 01/12/1990

Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608502006
Global Id: T0608502006
Latitude: 37.413218
Longitude: -122.0749
Status: Completed - Case Closed
Status Date: 09/12/1997
Case Worker: UUU
RB Case Number: 43-2183
Local Agency: SANTA CLARA COUNTY LOP
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Stoddard solvent / Mineral Spriits / Distillates
Site History: Not reported

LUST:
Global Id: T0608502006
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

Global Id: T0608502006
Contact Type: Local Agency Caseworker
Contact Name: UST CASE WORKER
Organization Name: SANTA CLARA COUNTY LOP
Address: 1555 Berger Drive, Suite 300
City: SAN JOSE
Email: Not reported
Phone Number: 4089183400

LUST:
Global Id: T0608502006
Action Type: Other
Date: 09/12/1997
Action: Leak Reported

Global Id: T0608502006
Action Type: ENFORCEMENT
Date: 09/11/1997
Action: Closure/No Further Action Letter

Global Id: T0608502006
Action Type: RESPONSE
Date: 06/03/2005
Action: Other Report / Document

SANTA CLARA VALLEY TRANSPORTAT (Continued) **S103626342**

Global Id: T0608502006
Action Type: Other
Date: 09/12/1997
Action: Leak Discovery

Global Id: T0608502006
Action Type: RESPONSE
Date: 01/01/2003
Action: Correspondence

Global Id: T0608502006
Action Type: RESPONSE
Date: 06/03/2005
Action: Other Report / Document

Global Id: T0608502006
Action Type: Other
Date: 09/12/1997
Action: Leak Stopped

LUST:
Global Id: T0608502006
Status: Completed - Case Closed
Status Date: 09/12/1997

Global Id: T0608502006
Status: Open - Case Begin Date
Status Date: 08/12/1997

Global Id: T0608502006
Status: Open - Site Assessment
Status Date: 08/12/1997

Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608502008
Global Id: T0608502008
Latitude: 37.413282
Longitude: -122.0741788
Status: Completed - Case Closed
Status Date: 09/15/1997
Case Worker: UUU
RB Case Number: 43-2185
Local Agency: SANTA CLARA COUNTY LOP
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0608502008
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400

SANTA CLARA VALLEY TRANSPORTAT (Continued) **S103626342**

City: OAKLAND
Email: Not reported
Phone Number: Not reported

Global Id: T0608502008
Contact Type: Local Agency Caseworker
Contact Name: UST CASE WORKER
Organization Name: SANTA CLARA COUNTY LOP
Address: 1555 Berger Drive, Suite 300
City: SAN JOSE
Email: Not reported
Phone Number: 4089183400

LUST:
Global Id: T0608502008
Action Type: Other
Date: 09/15/1997
Action: Leak Reported

Global Id: T0608502008
Action Type: Other
Date: 09/15/1997
Action: Leak Discovery

Global Id: T0608502008
Action Type: Other
Date: 09/15/1997
Action: Leak Stopped

LUST:
Global Id: T0608502008
Status: Completed - Case Closed
Status Date: 09/15/1997

Global Id: T0608502008
Status: Open - Case Begin Date
Status Date: 09/15/1997

Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608502007
Global Id: T0608502007
Latitude: 37.413282
Longitude: -122.0741788
Status: Completed - Case Closed
Status Date: 09/15/1997
Case Worker: UUU
RB Case Number: 43-2184
Local Agency: SANTA CLARA COUNTY LOP
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Diesel
Site History: Not reported

SANTA CLARA VALLEY TRANSPORTAT (Continued) **S103626342**

LUST:
Global Id: T0608502007
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

Global Id: T0608502007
Contact Type: Local Agency Caseworker
Contact Name: UST CASE WORKER
Organization Name: SANTA CLARA COUNTY LOP
Address: 1555 Berger Drive, Suite 300
City: SAN JOSE
Email: Not reported
Phone Number: 4089183400

LUST:
Global Id: T0608502007
Action Type: Other
Date: 09/15/1997
Action: Leak Reported

Global Id: T0608502007
Action Type: Other
Date: 08/18/1997
Action: Leak Discovery

Global Id: T0608502007
Action Type: Other
Date: 08/18/1997
Action: Leak Stopped

LUST:
Global Id: T0608502007
Status: Completed - Case Closed
Status Date: 09/15/1997

Global Id: T0608502007
Status: Open - Case Begin Date
Status Date: 08/18/1997

LUST REG 2:
Region: 2
Facility Id: 43-1243
Facility Status: Case Closed
Case Number: 06S2W15E03
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST

SANTA CLARA VALLEY TRANSPORTAT (Continued) **S103626342**

Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 11/30/1988
Pollution Characterization Began: 1/12/1990
Pollution Remediation Plan Submitted: 3/1/1990
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Region: 2
Facility Id: 43-2183
Facility Status: Case Closed
Case Number: 43-2183
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 9/12/1997
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Region: 2
Facility Id: 43-2184
Facility Status: Case Closed
Case Number: 43-2184
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Region: 2
Facility Id: 43-2185
Facility Status: Case Closed
Case Number: 43-2185
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

LUST SANTA CLARA:
Region: SANTA CLARA

SANTA CLARA VALLEY TRANSPORTAT (Continued) **S103626342**

SCVWD ID: 06S2W15E03F
Date Closed: 09/11/1997
EDR Link ID: 06S2W15E03F

SWEEPS UST:
Status: Not reported
Comp Number: 156
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 43-000-000156-000001
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: 4

Status: Not reported
Comp Number: 156
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 43-000-000156-000002
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 156
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 43-000-000156-000003
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Status: Not reported

SANTA CLARA VALLEY TRANSPORTAT (Continued) **S103626342**

Comp Number: 156
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 43-000-000156-000004
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

EMI:

Year: 2003
County Code: 43
Air Basin: SF
Facility ID: 13038
Air District Name: BA
SIC Code: 9621
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 1
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Year: 2004
County Code: 43
Air Basin: SF
Facility ID: 13038
Air District Name: BA
SIC Code: 9621
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.078
Reactive Organic Gases Tons/Yr: 0.0652626
Carbon Monoxide Emissions Tons/Yr: 0.215
NOX - Oxides of Nitrogen Tons/Yr: 0.99
SOX - Oxides of Sulphur Tons/Yr: 0.031
Particulate Matter Tons/Yr: 0.071
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0.069296

Year: 2005
County Code: 43
Air Basin: SF
Facility ID: 13038
Air District Name: BA
SIC Code: 9621

SANTA CLARA VALLEY TRANSPORTAT (Continued) **S103626342**

Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.022
Reactive Organic Gases Tons/Yr:	.0210334
Carbon Monoxide Emissions Tons/Yr:	.007
NOX - Oxides of Nitrogen Tons/Yr:	.03
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	.002
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.001952

Year:	2006
County Code:	43
Air Basin:	SF
Facility ID:	13038
Air District Name:	BA
SIC Code:	9621
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.028
Reactive Organic Gases Tons/Yr:	.0260536
Carbon Monoxide Emissions Tons/Yr:	.022
NOX - Oxides of Nitrogen Tons/Yr:	.101
SOX - Oxides of Sulphur Tons/Yr:	.002
Particulate Matter Tons/Yr:	.007
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.006832

Year:	2007
County Code:	43
Air Basin:	SF
Facility ID:	13038
Air District Name:	BA
SIC Code:	9621
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.058
Reactive Organic Gases Tons/Yr:	.0511546
Carbon Monoxide Emissions Tons/Yr:	.32
NOX - Oxides of Nitrogen Tons/Yr:	.26
SOX - Oxides of Sulphur Tons/Yr:	.007
Particulate Matter Tons/Yr:	.015
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.01464

Year:	2008
County Code:	43
Air Basin:	SF
Facility ID:	13038
Air District Name:	BA
SIC Code:	9621
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.036
Reactive Organic Gases Tons/Yr:	.0327472
Carbon Monoxide Emissions Tons/Yr:	.137

SANTA CLARA VALLEY TRANSPORTAT (Continued) **S103626342**

NOX - Oxides of Nitrogen Tons/Yr:	.111
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	.006
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.005856

Year:	2009
County Code:	43
Air Basin:	SF
Facility ID:	13038
Air District Name:	BA
SIC Code:	9621
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.2999999999999999E-2
Reactive Organic Gases Tons/Yr:	0.0488093
Carbon Monoxide Emissions Tons/Yr:	0.156
NOX - Oxides of Nitrogen Tons/Yr:	0.127
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	7.1721311475409803E-3
Part. Matter 10 Micrometers and Smllr Tons/Yr:	7.0000000000000001E-3

Year:	2010
County Code:	43
Air Basin:	SF
Facility ID:	13038
Air District Name:	BA
SIC Code:	4111
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.6000000000000001E-2
Reactive Organic Gases Tons/Yr:	5.1319400000000001E-2
Carbon Monoxide Emissions Tons/Yr:	0.182
NOX - Oxides of Nitrogen Tons/Yr:	0.14799999999999999
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	9.2213114754098307E-3
Part. Matter 10 Micrometers and Smllr Tons/Yr:	8.9999999999999993E-3

Year:	2011
County Code:	43
Air Basin:	SF
Facility ID:	13038
Air District Name:	BA
SIC Code:	4111
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.055
Reactive Organic Gases Tons/Yr:	0.0504827
Carbon Monoxide Emissions Tons/Yr:	0.177
NOX - Oxides of Nitrogen Tons/Yr:	0.144
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year: 2012

SANTA CLARA VALLEY TRANSPORTAT (Continued) **S103626342**

County Code:	43
Air Basin:	SF
Facility ID:	13038
Air District Name:	BA
SIC Code:	4111
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.047
Reactive Organic Gases Tons/Yr:	0.0437891
Carbon Monoxide Emissions Tons/Yr:	0.108
NOX - Oxides of Nitrogen Tons/Yr:	0.087
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0.0051229508197
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.005

Year:	2013
County Code:	43
Air Basin:	SF
Facility ID:	13038
Air District Name:	BA
SIC Code:	4111
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.025
Reactive Organic Gases Tons/Yr:	0.0234122
Carbon Monoxide Emissions Tons/Yr:	0.05
NOX - Oxides of Nitrogen Tons/Yr:	0.041
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0.002
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.002

Year:	2014
County Code:	43
Air Basin:	SF
Facility ID:	13038
Air District Name:	BA
SIC Code:	4111
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.025336733
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0.050149505
NOX - Oxides of Nitrogen Tons/Yr:	0.040736191
SOX - Oxides of Sulphur Tons/Yr:	3.2407e-005
Particulate Matter Tons/Yr:	0.000926909
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.000889832

Year:	2015
County Code:	43
Air Basin:	SF
Facility ID:	13038
Air District Name:	BA
SIC Code:	4111
Air District Name:	BAY AREA AQMD

SANTA CLARA VALLEY TRANSPORTAT (Continued) **S103626342**

Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.030357368
Reactive Organic Gases Tons/Yr:	0.029756807
Carbon Monoxide Emissions Tons/Yr:	0.09188466
NOX - Oxides of Nitrogen Tons/Yr:	0.07463744
SOX - Oxides of Sulphur Tons/Yr:	5.9377e-005
Particulate Matter Tons/Yr:	0.001698295
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.001630364

Year:	2016
County Code:	43
Air Basin:	SF
Facility ID:	13038
Air District Name:	BA
SIC Code:	4111
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.027227571
Reactive Organic Gases Tons/Yr:	0.025647117757
Carbon Monoxide Emissions Tons/Yr:	0.065867478
NOX - Oxides of Nitrogen Tons/Yr:	0.053503836
SOX - Oxides of Sulphur Tons/Yr:	4.2565e-005
Particulate Matter Tons/Yr:	0.001217423
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.001168726

L71 **SANTA CLARA VALLEY TRANSPORTATION AUTHORITY** **CA AST** **A100160575**
North **1235 L'AVENIDA** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA**
0.137 mi.
722 ft. **Site 7 of 8 in cluster L**

Relative: AST:
Lower

Actual:
30 ft.

Certified Unified Program Agencies:	Santa Clara County
Owner:	SCC VALLEY TRANSP AUTHORITY
Total Gallons:	3,535
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported
Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported

SANTA CLARA VALLEY TRANSPORTATION AUTHORITY (Continued) **A100160575**

Property Owner Zip Code: Not reported
Property Owner Country: Not reported
EPAID: Not reported

L72 **SANTA CLARA COUNTY TRANSP AGENCY** **CA CPS-SLIC** **S106162859**
North **1235 LAVENIDA AVE** **CA CERS** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.137 mi.
722 ft. **Site 8 of 8 in cluster L**

Relative:
Lower

Actual:
30 ft.

CPS-SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	06/10/2009
Global Id:	T0608591630
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	Not reported
Latitude:	37.413282
Longitude:	-122.0741788
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	43S0284
File Location:	Not reported
Potential Media Affected:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Waste Oil / Motor / Hydraulic / Lubricating
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

SLIC REG 2:

Region:	2
Facility ID:	43S0284
Facility Status:	Pollution Characterization
Date Closed:	Not reported
Local Case #:	Not reported
How Discovered:	Tank Closure
Leak Cause:	UNK
Leak Source:	UNK
Date Confirmed:	Not reported
Date Prelim Site Assmnt Workplan Submitted:	Not reported
Date Preliminary Site Assessment Began:	Not reported
Date Pollution Characterization Began:	1/1/1993
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

CERS TANKS:

Site ID:	258162
CERS ID:	T0608591630
CERS Description:	Cleanup Program Site

J73 **TELEDYNE ELECTRONIC TECH** **CA HIST UST** **U001595905**
West **1274 TERRA BELLA AVE** **CA WDS** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.137 mi.
722 ft. **Site 2 of 6 in cluster J**

Relative:
Lower

Actual:
36 ft.

HIST UST:

File Number:	0002096E
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002096E.pdf
Region:	STATE
Facility ID:	00000004653
Facility Type:	Other
Other Type:	MICROWAVE ELECTRONIC
Contact Name:	Not reported
Telephone:	4154931770
Owner Name:	TELEDYNE MEC
Owner Address:	3165 PORTER DRIVE
Owner City,St,Zip:	PALO ALTO, CA 943030829
Total Tanks:	0001
Tank Num:	001
Container Num:	1
Year Installed:	1981
Tank Capacity:	00002000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	8
Leak Detection:	None
Tank Num:	001
Container Num:	1
Year Installed:	1981
Tank Capacity:	00002000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	8
Leak Detection:	None

Click here for Geo Tracker PDF:

WDS:

Facility ID:	San Francisco Bay 43I006649
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	2
Facility Telephone:	6509626572
Facility Contact:	DENNIS MARSHALL
Agency Name:	TELEDYNE IND
Agency Address:	1274 Terra Bella Ave
Agency City,St,Zip:	Mountain View 940431885
Agency Contact:	DENNIS MARSHALL

TELEDYNE ELECTRONIC TECH (Continued) **U001595905**

Agency Telephone:	6509626572
Agency Type:	Private
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

J74 **TELEDYNE WIRELESS LLC DBA TELEDYNE MICROWAVE** **RCRA-SQG** **1000201858**
West **1274 TERRA BELLA AVE** **CA NPDES** **CAD980665723**
1/8-1/4 **MOUNTAIN VIEW, CA 94043** **CA CIWQS**
0.137 mi.
722 ft. **Site 3 of 6 in cluster J**

Relative: **Lower**
Actual: **36 ft.**

RCRA-SQG:

Date form received by agency:	12/10/2014
Facility name:	TELEDYNE WIRELESS LLC DBA TELEDYNE MICROWAVE
Facility address:	1274 TERRA BELLA AVE MOUNTAIN VIEW, CA 94043
EPA ID:	CAD980665723
Contact:	HASSAN A BATAKJI
Contact address:	1274 TERRA BELLA AVE MOUNTAIN VIEW, CA 94043
Contact country:	US
Contact telephone:	916-869-1363
Contact email:	HBATAKJI@TELEDYNE.COM
EPA Region:	09
Land type:	Private
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	TELEDYNE WIRELESS LLC

TELEDYNE WIRELESS LLC DBA TELEDYNE MICROWAVE (Continued) **1000201858**

Owner/operator address: 1049 CAMINO DOS RIOS
THOUSAND OAKS, CA 91360
Owner/operator country: US
Owner/operator telephone: 805-373-4545
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/03/2005
Owner/Op end date: Not reported

Owner/operator name: TELEDYNE MICROWAVE
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/03/2005
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

. Waste code: 135
. Waste name: Unspecified aqueous solution

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 151
. Waste name: Asbestos-containing waste

TELEDYNE WIRELESS LLC DBA TELEDYNE MICROWAVE (Continued) **1000201858**

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 211
. Waste name: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)

. Waste code: 212
. Waste name: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: 291
. Waste name: Latex waste

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 512
. Waste name: Other empty containers 30 gallons or more

. Waste code: 513
. Waste name: Empty containers less than 30 gallons

. Waste code: 551
. Waste name: Laboratory waste chemicals

. Waste code: 723
. Waste name: Liquids with chromium (VI) > 500 mg/l

. Waste code: 725
. Waste name: Liquids with mercury > 20 mg/l

. Waste code: 741
. Waste name: Liquids with halogenated organic compounds > 1000 mg/l

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: 792
. Waste name: Liquids with pH < 2 with metals

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET,

TELEDYNE WIRELESS LLC DBA TELEDYNE MICROWAVE (Continued) **1000201858**

WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Historical Generators:
Date form received by agency: 02/06/2014
Site name: TELEDYNE WIRELESS LLC DBA TELEDYNE MICROWAVE
Classification: Small Quantity Generator

TELEDYNE WIRELESS LLC DBA TELEDYNE MICROWAVE (Continued) **1000201858**

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 151
. Waste name: Asbestos-containing waste

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 211
. Waste name: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)

. Waste code: 212
. Waste name: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 512
. Waste name: Other empty containers 30 gallons or more

. Waste code: 513
. Waste name: Empty containers less than 30 gallons

. Waste code: 551
. Waste name: Laboratory waste chemicals

. Waste code: 723
. Waste name: Liquids with chromium (VI) > 500 mg/l

. Waste code: 725
. Waste name: Liquids with mercury > 20 mg/l

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: 792
. Waste name: Liquids with pH < 2 with metals

TELEDYNE WIRELESS LLC DBA TELEDYNE MICROWAVE (Continued) **1000201858**

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

TELEDYNE WIRELESS LLC DBA TELEDYNE MICROWAVE (Continued) **1000201858**

Date form received by agency: 08/31/2011
Site name: TELEDYNE WIRELESS LLC DBA TELEDYNE MICROWAVE
Classification: Small Quantity Generator

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 151
. Waste name: Asbestos-containing waste

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 211
. Waste name: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)

. Waste code: 212
. Waste name: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 512
. Waste name: Other empty containers 30 gallons or more

. Waste code: 723
. Waste name: Liquids with chromium (VI) > 500 mg/l

. Waste code: 725
. Waste name: Liquids with mercury > 20 mg/l

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: 792
. Waste name: Liquids with pH < 2 with metals

. Waste code: D001

TELEDYNE WIRELESS LLC DBA TELEDYNE MICROWAVE (Continued) **1000201858**

. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 01/05/2005

TELEDYNE WIRELESS LLC DBA TELEDYNE MICROWAVE (Continued) **1000201858**

Site name: TELEDYNE ELECTRONICS TECHNOLOGY
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D011
. Waste name: SILVER

. Waste code: D038
. Waste name: PYRIDINE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT

TELEDYNE WIRELESS LLC DBA TELEDYNE MICROWAVE (Continued) **1000201858**

MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 10/12/2000
Site name: TELEDYNE ELECTRONIC TECHNOLOGIES
Classification: Large Quantity Generator

Date form received by agency: 08/10/2000
Site name: T E T MOUNTAIN VIEW
Classification: Small Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D011
. Waste name: SILVER

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING:

TELEDYNE WIRELESS LLC DBA TELEDYNE MICROWAVE (Continued) **1000201858**

TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 04/15/1999
Site name: TELEDYNE ELECTRONIC TECHNOLOGIES - MT. V
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: T E T MOUNTAIN VIEW
Classification: Small Quantity Generator

Date form received by agency: 03/01/1996
Site name: TELEDYNE ELECTRONIC TECHNOLOGIES-MT VIEW
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 03/28/2007
Date achieved compliance: 03/28/2007

TELEDYNE WIRELESS LLC DBA TELEDYNE MICROWAVE (Continued) **1000201858**

Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/28/2007
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 03/28/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 03/28/2007
Evaluation lead agency: State

NPDES:
Facility Status: Active
NPDES Number: CAS000001
Region: 2
Agency Number: 0
Regulatory Measure ID: 183874
Place ID: Not reported
Order Number: 97-03-DWQ
WDID: 2 43NEC000011
Regulatory Measure Type: Enrollee
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 05/01/1992
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: 1274 Terra Bella Ave
Discharge Name: Teledyne Wireless LLC
Discharge City: Mountain View
Discharge State: California
Discharge Zip: 94043
Status: Not reported
Status Date: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported

NPDES as of 03/2018:
NPDES Number: CAS000001
Status: Active
Agency Number: 0
Region: 2
Regulatory Measure ID: 183874
Order Number: 97-03-DWQ
Regulatory Measure Type: Enrollee
Place ID: Not reported
WDID: 2 43NEC000011
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 05/01/1992

TELEDYNE WIRELESS LLC DBA TELEDYNE MICROWAVE (Continued) **1000201858**

Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Teledyne Wireless LLC
Discharge Address:	1274 Terra Bella Ave
Discharge City:	Mountain View
Discharge State:	California
Discharge Zip:	94043
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported

TELEDYNE WIRELESS LLC DBA TELEDYNE MICROWAVE (Continued) **1000201858**

Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	183874
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 43NEC000011
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:	06/30/2015
Processed Date:	05/01/1992
Status:	Active
Status Date:	06/30/2015
Place Size:	14
Place Size Unit:	Acres
Contact:	Al Batakji
Contact Title:	Not reported
Contact Phone:	650-691-9800
Contact Phone Ext:	Not reported
Contact Email:	hbatakji@Teledyne.com
Operator Name:	Teledyne Wireless LLC
Operator Address:	1274 Terra Bella Ave
Operator City:	Mountain View
Operator State:	California
Operator Zip:	94043
Operator Contact:	Al Batakji
Operator Contact Title:	Not reported
Operator Contact Phone:	650-691-9800
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	hbatakji@Teledyne.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported

TELEDYNE WIRELESS LLC DBA TELEDYNE MICROWAVE (Continued) **1000201858**

Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Permanente Creek
Certifier:	Al Batakji
Certifier Title:	Director
Certification Date:	04-OCT-16
Primary Sic:	3679-Electronic Components, NEC
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	2 43NEC000011
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	06/30/2015
Operator Name:	Teledyne Wireless LLC
Operator Address:	1274 Terra Bella Ave
Operator City:	Mountain View
Operator State:	California
Operator Zip:	94043

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0

TELEDYNE WIRELESS LLC DBA TELEDYNE MICROWAVE (Continued) **1000201858**

Region:	2
Regulatory Measure ID:	183874
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 43NEC000011
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	05/01/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Teledyne Wireless LLC
Discharge Address:	1274 Terra Bella Ave
Discharge City:	Mountain View
Discharge State:	California
Discharge Zip:	94043
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported

TELEDYNE WIRELESS LLC DBA TELEDYNE MICROWAVE (Continued) **1000201858**

Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	183874
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 43NEC000011
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:	06/30/2015
Processed Date:	05/01/1992
Status:	Active
Status Date:	06/30/2015
Place Size:	14
Place Size Unit:	Acres
Contact:	Al Batakji
Contact Title:	Not reported
Contact Phone:	650-691-9800
Contact Phone Ext:	Not reported
Contact Email:	hbatakji@Teledyne.com
Operator Name:	Teledyne Wireless LLC
Operator Address:	1274 Terra Bella Ave
Operator City:	Mountain View
Operator State:	California
Operator Zip:	94043
Operator Contact:	Al Batakji
Operator Contact Title:	Not reported
Operator Contact Phone:	650-691-9800
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	hbatakji@Teledyne.com
Operator Type:	Private Business

TELEDYNE WIRELESS LLC DBA TELEDYNE MICROWAVE (Continued) **1000201858**

Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Permanente Creek
Certifier:	Al Batakji
Certifier Title:	Director
Certification Date:	04-OCT-16
Primary Sic:	3679-Electronic Components, NEC
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CIWQS:

Agency:	Teledyne Wireless LLC
Agency Address:	1274 Terra Bella Ave, Mountain View, CA 94043
Place/Project Type:	Industrial - Electronic Components, NEC
SIC/NAICS:	3679
Region:	2
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	2 43NEC000011
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	05/01/1992
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0

TELEDYNE WIRELESS LLC DBA TELEDYNE MICROWAVE (Continued) **1000201858**

Violations within 5 years: 0
Latitude: 37.40942
Longitude: -122.07995

J75 **ABBOTT LABORATORIES** **RCRA-SQG** **1000857604**
West **1277 TERRA BELLA AVE** **FINDS** **CAD983670431**
1/8-1/4 **MOUNTAIN VIEW, CA 94043** **ECHO**
0.137 mi. **CA EMI**
722 ft. **Site 4 of 6 in cluster J**

Relative:
Lower

Actual:
36 ft.

RCRA-SQG:
Date form received by agency: 06/18/1993
Facility name: ABBOTT LABORATORIES
Facility address: 1277 TERRA BELLA AVE
MOUNTAIN VIEW, CA 94043
EPA ID: CAD983670431
Contact: TIM HAIN
Contact address: 1212 TERRA BELLA AVE
MOUNTAIN VIEW, CA 94043
Contact country: US
Contact telephone: 415-691-0268
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: ABBOTT LABORATORIES
Owner/operator address: ONE ABBOTT PARK RD
ABBOTT PARK, IL 60064
Owner/operator country: Not reported
Owner/operator telephone: 708-937-6100
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No

ABBOTT LABORATORIES (Continued) **1000857604**

Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002411854

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: 1000857604
Registry ID: 110002411854
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002411854

EMI:
Year: 1995
County Code: 43
Air Basin: SF
Facility ID: 8764
Air District Name: BA
SIC Code: 3841
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 1
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Year: 1996
County Code: 43
Air Basin: SF
Facility ID: 8764
Air District Name: BA
SIC Code: 3841
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 1
Carbon Monoxide Emissions Tons/Yr: 0

ABBOTT LABORATORIES (Continued) **1000857604**

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

J76 **TELEDYNE MICROWAVE** **CA CERS HAZ WASTE** **S102806562**
West **1274 TERRA BELLA AVENUE** **CA EMI** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 93302** **CA CERS**
0.137 mi.
722 ft. **Site 5 of 6 in cluster J**

Relative: **Lower**
Actual: **36 ft.**

CERS HAZ WASTE:
Site ID: 74286
CERS ID: 10345102
CERS Description: Hazardous Waste Generator

Violations:
Site ID: 74286
Site Name: Teledyne Microwave
Violation Date: 03-23-2018
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: Update site map with accurate locations of all chemicals
Violation Division: Mountain View Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-16-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Onsite today for routine hazardous waste inspection, noted the following: -Met with facility manager Darin Clarke and Al Batakjih today, toured facility. -Labs perform soldering and work also with some solvents including toluene and MEK for process and production work of parts. -Each lab bench worker has an independent satellite container for hazardous waste solid debris, each has a completed hazardous waste label. -Emergency Procedures were updated today and posted in the facility. -Outside there are approximately 8 hazardous waste storage rooms for segregation of wastes for compatibility purposes; Chemical shed #1 had 1 x 55 gallon vapor degreaser drum, label accumulation start date was updated today (label was mis-labeled for 2014). -Discussed training details and universal waste handling; the universal waste batteries, fluorescent tubes and aerosol cans were labeled and stored appropriately. -Manifests are maintained onsite and were reviewed today. No were [Truncated]
Eval Division: Santa Clara County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-25-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported

TELEDYNE MICROWAVE (Continued) **S102806562**

Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-23-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-12-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations.
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Al Batakji
Entity Title: Not reported
Affiliation Address: 1274 Terra Bella Avenue
Affiliation City: Mountain View
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94043
Affiliation Phone: (916) 869-1363

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1274 Terra Bella Avenue
Affiliation City: Mountain View
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94043
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: Al Batakji
Entity Title: Director, EHS
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: Teledyne Wireless, LLC
Entity Title: Not reported
Affiliation Address: Not reported

TELEDYNE MICROWAVE (Continued) **S102806562**

Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (650) 691-9800

Affiliation Type Desc: Parent Corporation
Entity Name: Teledyne Microwave
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 Clara County Environmental Health
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: San Jose
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95112-2716
Affiliation Phone: (408) 918-3400

Affiliation Type Desc: Legal Owner
Entity Name: Teledyne Wireless, LLC
Entity Title: Not reported
Affiliation Address: 1274 Terra Bella Avenue
Affiliation City: Mountain View
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94043
Affiliation Phone: (650) 691-9800

Affiliation Type Desc: Property Owner
Entity Name: Teledyne Wireless, LLC
Entity Title: Not reported
Affiliation Address: 1274 Terra Bella Avenue
Affiliation City: Mountain View
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94043
Affiliation Phone: (650) 691-9800

Site ID: 74286
CERS ID: 10345102
CERS Description: RCRA LQ HW Generator

Violations:
Site ID: 74286
Site Name: Teledyne Microwave
Violation Date: 03-23-2018
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

TELEDYNE MICROWAVE (Continued) **S102806562**

required content.
Violation Notes: Update site map with accurate locations of all chemicals
Violation Division: Mountain View Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-16-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Onsite today for routine hazardous waste inspection, noted the following: -Met with facility manager Darin Clarke and Al Batakjih today, toured facility. -Labs perform soldering and work also with some solvents including toluene and MEK for process and production work of parts. -Each lab bench worker has an independent satellite container for hazardous waste solid debris, each has a completed hazardous waste label. -Emergency Procedures were updated today and posted in the facility. -Outside there are approximately 8 hazardous waste storage rooms for segregation of wastes for compatibility purposes; Chemical shed #1 had 1 x 55 gallon vapor degreaser drum, label accumulation start date was updated today (label was mis-labeled for 2014). -Discussed training details and universal waste handling; the universal waste batteries, fluorescent tubes and aerosol cans were labeled and stored appropriately. -Manifests are maintained onsite and were reviewed today. No were [Truncated]
Eval Division: Santa Clara County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-25-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-23-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-12-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations.
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

TELEDYNE MICROWAVE (Continued) **S102806562**

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	Al Batakji
Entity Title:	Not reported
Affiliation Address:	1274 Terra Bella Avenue
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	(916) 869-1363

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1274 Terra Bella Avenue
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Al Batakji
Entity Title:	Director, EHS
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:	Teledyne Wireless, 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:	(650) 691-9800

Affiliation Type Desc:	Parent Corporation
Entity Name:	Teledyne Microwave
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 Clara County Environmental Health
Entity Title:	Not reported
Affiliation Address:	1555 Berger Drive, Suite 300
Affiliation City:	San Jose
Affiliation State:	CA

TELEDYNE MICROWAVE (Continued) **S102806562**

Affiliation Country:	Not reported
Affiliation Zip:	95112-2716
Affiliation Phone:	(408) 918-3400
Affiliation Type Desc:	Legal Owner
Entity Name:	Teledyne Wireless, LLC
Entity Title:	Not reported
Affiliation Address:	1274 Terra Bella Avenue
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94043
Affiliation Phone:	(650) 691-9800
Affiliation Type Desc:	Property Owner
Entity Name:	Teledyne Wireless, LLC
Entity Title:	Not reported
Affiliation Address:	1274 Terra Bella Avenue
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94043
Affiliation Phone:	(650) 691-9800

EMI:

Year:	1987
County Code:	43
Air Basin:	SF
Facility ID:	1127
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0
Year:	1990
County Code:	43
Air Basin:	SF
Facility ID:	1127
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0

TELEDYNE MICROWAVE (Continued) **S102806562**

Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1995
County Code:	43
Air Basin:	SF
Facility ID:	1127
Air District Name:	BA
SIC Code:	3663
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1996
County Code:	43
Air Basin:	SF
Facility ID:	1127
Air District Name:	BA
SIC Code:	3663
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1997
County Code:	43
Air Basin:	SF
Facility ID:	1127
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1998
County Code:	43
Air Basin:	SF

TELEDYNE MICROWAVE (Continued) **S102806562**

Facility ID:	1127
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1999
County Code:	43
Air Basin:	SF
Facility ID:	1127
Air District Name:	BA
SIC Code:	3699
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2000
County Code:	43
Air Basin:	SF
Facility ID:	1127
Air District Name:	BA
SIC Code:	3699
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2001
County Code:	43
Air Basin:	SF
Facility ID:	1127
Air District Name:	BA
SIC Code:	3699
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported

TELEDYNE MICROWAVE (Continued) **S102806562**

Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2002
County Code:	43
Air Basin:	SF
Facility ID:	1127
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2003
County Code:	43
Air Basin:	SF
Facility ID:	1127
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2004
County Code:	43
Air Basin:	SF
Facility ID:	1127
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.78
Reactive Organic Gases Tons/Yr:	0.3306481
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

TELEDYNE MICROWAVE (Continued) **S102806562**

Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Year:	2005
County Code:	43
Air Basin:	SF
Facility ID:	1127
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.26
Reactive Organic Gases Tons/Yr:	.5442481
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0

Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Year:	2006
County Code:	43
Air Basin:	SF
Facility ID:	1127
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.507
Reactive Organic Gases Tons/Yr:	.5820196
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0

Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Year:	2007
County Code:	43
Air Basin:	SF
Facility ID:	1127
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.507
Reactive Organic Gases Tons/Yr:	.776929
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0

Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Year:	2008
County Code:	43
Air Basin:	SF
Facility ID:	1127

TELEDYNE MICROWAVE (Continued) **S102806562**

Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.507
Reactive Organic Gases Tons/Yr:	.5820196
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2009
County Code:	43
Air Basin:	SF
Facility ID:	1127
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.9490000000000001
Reactive Organic Gases Tons/Yr:	0.75881960000000004
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2010
County Code:	43
Air Basin:	SF
Facility ID:	1127
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.3320000000000001
Reactive Organic Gases Tons/Yr:	0.55937539999999997
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2011
County Code:	43
Air Basin:	SF
Facility ID:	1127
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.332

TELEDYNE MICROWAVE (Continued) **S102806562**

Reactive Organic Gases Tons/Yr:	0.4972
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2012
County Code:	43
Air Basin:	SF
Facility ID:	1127
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.332
Reactive Organic Gases Tons/Yr:	0.5188566
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2013
County Code:	43
Air Basin:	SF
Facility ID:	1127
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.985
Reactive Organic Gases Tons/Yr:	0.3800566
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2014
County Code:	43
Air Basin:	SF
Facility ID:	1127
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.671962367
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

TELEDYNE MICROWAVE (Continued) **S102806562**

Year:	2015
County Code:	43
Air Basin:	SF
Facility ID:	1127
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.201599606
Reactive Organic Gases Tons/Yr:	1.8504078563
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2016
County Code:	43
Air Basin:	SF
Facility ID:	1127
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.201599636
Reactive Organic Gases Tons/Yr:	0.93585909424
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

CERS TANKS:

Site ID:	74286
CERS ID:	10345102
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	74286
Site Name:	Teledyne Microwave
Violation Date:	03-23-2018
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:	Update site map with accurate locations of all chemicals
Violation Division:	Mountain View Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-16-2016
Violations Found:	No
Eval Type:	Routine done by local agency

TELEDYNE MICROWAVE (Continued) **S102806562**

Eval Notes:	Onsite today for routine hazardous waste inspection, noted the following: -Met with facility manager Darin Clarke and Al Batakjih today, toured facility. -Labs perform soldering and work also with some solvents including toluene and MEK for process and production work of parts. -Each lab bench worker has an independent satellite container for hazardous waste solid debris, each has a completed hazardous waste label. -Emergency Procedures were updated today and posted in the facility. -Outside there are approximately 8 hazardous waste storage rooms for segregation of wastes for compatibility purposes; Chemical shed #1 had 1 x 55 gallon vapor degreaser drum, label accumulation start date was updated today (label was mis-labeled for 2014). -Discussed training details and universal waste handling; the universal waste batteries, fluorescent tubes and aerosol cans were labeled and stored appropriately. -Manifests are maintained onsite and were reviewed today. No were [Truncated]
Eval Division:	Santa Clara County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-25-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-23-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-12-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations.
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	Al Batakji
Entity Title:	Not reported
Affiliation Address:	1274 Terra Bella Avenue
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	(916) 869-1363

TELEDYNE MICROWAVE (Continued) **S102806562**

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1274 Terra Bella Avenue
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Al Batakji
Entity Title:	Director, EHS
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:	Teledyne Wireless, 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:	(650) 691-9800

Affiliation Type Desc:	Parent Corporation
Entity Name:	Teledyne Microwave
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 Clara County Environmental Health
Entity Title:	Not reported
Affiliation Address:	1555 Berger Drive, Suite 300
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95112-2716
Affiliation Phone:	(408) 918-3400

Affiliation Type Desc:	Legal Owner
Entity Name:	Teledyne Wireless, LLC
Entity Title:	Not reported
Affiliation Address:	1274 Terra Bella Avenue
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	United States

TELEDYNE MICROWAVE (Continued) **S102806562**

Affiliation Zip:	94043
Affiliation Phone:	(650) 691-9800
Affiliation Type Desc:	Property Owner
Entity Name:	Teledyne Wireless, LLC
Entity Title:	Not reported
Affiliation Address:	1274 Terra Bella Avenue
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94043
Affiliation Phone:	(650) 691-9800

J77 **TELEDYNE MICROWAVE** **CA CUPA Listings** **S113002668**
West **1274 TERRA BELLA AV** **CA HAZNET** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.137 mi.
722 ft. **Site 6 of 6 in cluster J**

Relative: **Lower**

Actual: **36 ft.**

CUPA SANTA CLARA:

Facility Name:	TELEDYNE MICROWAVE
Region:	SANTA CLARA
PE#:	2205
Program Description:	GENERATES 100 KG YR TO <5 TONS/YR
Latitude:	37.409322
Longitude:	-122.079581
Record ID:	PR0312823
Facility ID:	FA0203456

HAZNET:

Facility Name:	TELEDYNE WIRELESS LLC DBA TELEDYNE MICROWAVE
envid:	S113002668
Year:	2017
GEPAID:	CAD980665723
Contact:	AL BATAKJI
Telephone:	9166367451
Mailing Name:	Not reported
Mailing Address:	11361 SUNRISE PARK DRIVE
Mailing City,St,Zip:	SACRAMENTO, CA 957420000
Gen County:	Santa Clara
TSD EPA ID:	NVD980895338
TSD County:	99
Waste Category:	Other inorganic solid waste
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.015
Cat Decode:	Other inorganic solid waste
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Santa Clara
envid:	S113002668
Year:	2017
GEPAID:	CAD980665723
Contact:	AL BATAKJI
Telephone:	9166367451

TELEDYNE MICROWAVE (Continued) **S113002668**

Mailing Name: Not reported
Mailing Address: 11361 SUNRISE PARK DRIVE
Mailing City,St,Zip: SACRAMENTO, CA 957420000
Gen County: Santa Clara
TSD EPA ID: NVD980895338
TSD County: 99
Waste Category: Liquids with pH <= 2 with metals
Disposal Method: Neutralization Only
Tons: 0.0275
Cat Decode: Liquids with pH <= 2 with metals
Method Decode: Neutralization Only
Facility County: Santa Clara

envid: S113002668
Year: 2017
GEPAID: CAD980665723
Contact: AL BATAKJI
Telephone: 9166367451
Mailing Name: Not reported
Mailing Address: 11361 SUNRISE PARK DRIVE
Mailing City,St,Zip: SACRAMENTO, CA 957420000
Gen County: Santa Clara
TSD EPA ID: NVD980895338
TSD County: 99
Waste Category: Other inorganic solid waste
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.015
Cat Decode: Other inorganic solid waste
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Santa Clara

envid: S113002668
Year: 2017
GEPAID: CAD980665723
Contact: AL BATAKJI
Telephone: 9166367451
Mailing Name: Not reported
Mailing Address: 11361 SUNRISE PARK DRIVE
Mailing City,St,Zip: SACRAMENTO, CA 957420000
Gen County: Santa Clara
TSD EPA ID: NVD980895338
TSD County: 99
Waste Category: Other inorganic solid waste
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.015
Cat Decode: Other inorganic solid waste
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Santa Clara

envid: S113002668
Year: 2017
GEPAID: CAD980665723
Contact: AL BATAKJI

TELEDYNE MICROWAVE (Continued) **S113002668**

Telephone:	9166367451
Mailing Name:	Not reported
Mailing Address:	11361 SUNRISE PARK DRIVE
Mailing City,St,Zip:	SACRAMENTO, CA 957420000
Gen County:	Santa Clara
TSD EPA ID:	NVD980895338
TSD County:	99
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.123
Cat Decode:	Aqueous solution with total organic residues less than 10 percent
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Santa Clara

Click this hyperlink while viewing on your computer to access
3795 additional CA_HAZNET: record(s) in the EDR Site Report.

M78 **MACROMOLECULAR LLC** **CA CUPA Listings** **S100930835**
ESE **1025 TERRA BELLA AV STE B** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.139 mi.
734 ft. **Site 1 of 7 in cluster M**

Relative: **Higher**

Actual: **39 ft.**

CUPA SANTA CLARA:

Facility Name:	MACROMOLECULAR LLC
Region:	SANTA CLARA
PE#:	2205
Program Description:	GENERATES 100 KG YR TO <5 TONS/YR
Latitude:	37.408291
Longitude:	-122.073686
Record ID:	PR0383265
Facility ID:	FA0261365

M79 **WAKO LIFE SCIENCES** **RCRA-SQG** **1018273792**
ESE **1025 TERRA BELLA AVE STE A** **CAR000259903**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.139 mi.
734 ft. **Site 2 of 7 in cluster M**

Relative: **Higher**

Actual: **39 ft.**

RCRA-SQG:

Date form received by agency:	02/29/2016
Facility name:	WAKO LIFE SCIENCES
Facility address:	1025 TERRA BELLA AVE STE A MOUNTAIN VIEW, CA 94043
EPA ID:	CAR000259903
Mailing address:	TERRA BELLA AVE STE A MOUNTAIN VIEW, CA 94043
Contact:	MARI IWAMOTO
Contact address:	TERRA BELLA AVE STE A MOUNTAIN VIEW, CA 94043
Contact country:	US
Contact telephone:	650-210-9153
Contact email:	M-IWAMOTO@WAKOUSA.COM
EPA Region:	09

WAKO LIFE SCIENCES (Continued) **1018273792**

Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: WAKO LIFE SCIENCES
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 10/01/2015
Owner/Op end date: Not reported

Owner/operator name: 1ST AMER EXCH CO LLC AS QUAL INTERMED FO
Owner/operator address: N FIRST ST 5TH FLOOR
SAN JOSE, CA 95112
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 10/28/2015
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 132
. Waste name: Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals)

. Waste code: 214

WAKO LIFE SCIENCES (Continued) **1018273792**

. Waste name: Unspecified solvent mixture

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D011
. Waste name: SILVER

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

M80 **BIOMETRIC IMAGING INC** **CA CUPA Listings S121468890**
ESE **1025 TERRA BELLA AV** **CA HAZNET N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.139 mi.
734 ft. **Site 3 of 7 in cluster M**

Relative:
Higher

Actual:
39 ft.

CUPA SANTA CLARA:
Facility Name: FUJIFILM WAKO DIAGNOSTICS U.S.A. CORPORATION
Region: SANTA CLARA
PE#: 2202
Program Description: GENERATES < 100 KG/YR
Latitude: 37.408291
Longitude: -122.073686
Record ID: PR0401687
Facility ID: FA0261859

Region: SANTA CLARA
PE#: 2202
Program Description: GENERATES < 100 KG/YR
Latitude: 37.408291
Longitude: -122.073686
Record ID: PR0315073
Facility ID: FA0203362

HAZNET:
Facility Name: FUJIFILM WAKO DIAGNOSTICS U.S.A CORPORATION
envid: S121468890

BIOMETRIC IMAGING INC (Continued) **S121468890**

Year:	2017
GEPAID:	CAR000259903
Contact:	MARI IWAMOTO
Telephone:	6502109153
Mailing Name:	Not reported
Mailing Address:	1025 TERRA BELLA AVE STE A
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 940431829
Gen County:	Santa Clara
TSD EPA ID:	INR000127621
TSD County:	99
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.021
Cat Decode:	Aqueous solution with total organic residues less than 10 percent
Method Decode:	Fuel Blending Prior To Energy Recovery At Another Site
Facility County:	Santa Clara

envid:	S121468890
Year:	2017
GEPAID:	CAR000259903
Contact:	MARI IWAMOTO
Telephone:	6502109153
Mailing Name:	Not reported
Mailing Address:	1025 TERRA BELLA AVE STE A
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 940431829
Gen County:	Santa Clara
TSD EPA ID:	IND000646943
TSD County:	99
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Solvents Recovery
Tons:	0.229
Cat Decode:	Unspecified organic liquid mixture
Method Decode:	Solvents Recovery
Facility County:	Santa Clara

envid:	S121468890
Year:	2017
GEPAID:	CAL000424915
Contact:	TONY SHAFFER
Telephone:	6503367248
Mailing Name:	Not reported
Mailing Address:	1025 TERRA BELLA AVE STE B
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 94043
Gen County:	Santa Clara
TSD EPA ID:	CAD059494310
TSD County:	Santa Clara
Waste Category:	Laboratory waste chemicals
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.06
Cat Decode:	Laboratory waste chemicals
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Santa Clara

envid:	S121468890
Year:	2017

BIOMETRIC IMAGING INC (Continued) **S121468890**

GEPAID:	CAR000259903
Contact:	MARI IWAMOTO
Telephone:	6502109153
Mailing Name:	Not reported
Mailing Address:	1025 TERRA BELLA AVE STE A
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 940431829
Gen County:	Santa Clara
TSD EPA ID:	ARD069748192
TSD County:	99
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Incineration--Thermal Destruction Other Than Use As A Fuel
Tons:	0.0235
Cat Decode:	Unspecified organic liquid mixture
Method Decode:	Incineration--Thermal Destruction Other Than Use As A Fuel
Facility County:	Santa Clara

envid:	S121468890
Year:	2017
GEPAID:	CAR000259903
Contact:	MARI IWAMOTO
Telephone:	6502109153
Mailing Name:	Not reported
Mailing Address:	1025 TERRA BELLA AVE STE A
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 940431829
Gen County:	Santa Clara
TSD EPA ID:	CAD059494310
TSD County:	Santa Clara
Waste Category:	Aqueous solution with metals (< restricted levels and (Alkaline solution (pH >= 12.5) with metals))
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0417
Cat Decode:	Aqueous solution with metals (< restricted levels and (Alkaline solution (pH >= 12.5) with metals))
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Santa Clara

Click this hyperlink while viewing on your computer to access
1 additional CA_HAZNET: record(s) in the EDR Site Report.

M81 **FUJIFILM WAKO DIAGNOSTICS U.S.A. CORPORATION** **CA CERS HAZ WASTE** **S121792782**
ESE **1025 TERRA BELLA AVENUE SUITE A** **CA CERS** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.139 mi.
734 ft. **Site 4 of 7 in cluster M**

Relative:
Higher

Actual:
39 ft.

CERS HAZ WASTE:

Site ID:	84059
CERS ID:	10343953
CERS Description:	Hazardous Waste Generator

Violations:

Site ID:	84059
Site Name:	FUJIFILM Wako Diagnostics U.S.A. Corporation
Violation Date:	10-19-2015
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material

FUJIFILM WAKO DIAGNOSTICS U.S.A. CORPORATION (Continued) **S121792782**

inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 02/24/2016. Update hazardous waste and add new locations for chemical storage.
Violation Division: Mountain View Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 84059
Site Name: FUJIFILM Wako Diagnostics U.S.A. Corporation
Violation Date: 11-02-2015
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Update HMMP in CERS.
Violation Division: Mountain View Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 84059
Site Name: FUJIFILM Wako Diagnostics U.S.A. Corporation
Violation Date: 06-18-2015
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 06/18/2015. 1 x 5 gallon plastic container of toxic hazardous waste in the warehouse had two labels. One label did not indicate the contents/composition of the waste, it was removed today.
Violation Division: Santa Clara County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 84059
Site Name: FUJIFILM Wako Diagnostics U.S.A. Corporation
Violation Date: 12-10-2015
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Location: Add waste flammable liquids (ethanol, terpineol) to inventory, and fix other inconsistencies in inventory.
Violation Division: Mountain View Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-18-2015
Violations Found: Yes
Eval Type: Routine done by local agency

FUJIFILM WAKO DIAGNOSTICS U.S.A. CORPORATION (Continued) **S121792782**

Eval Notes:	Onsite today for routine hazardous waste inspection, noted the following: -Facility generates aqueous wastes with ethanol (profiled at 130 degree F - flash) and toxic thiocyanate aqueious waste. -Emergency information is available onsite. -Personnel appear familiar with hazardous waste operations. -Some wastes are accumulated in labs as satellite containers, then transferred to waste containers in the warehouse. -Accumulation times and storage is adequate with proper label detail information. Questions regarding this report, please contact Jeffrey M. Higbee at 408-918-4785
Eval Division:	Santa Clara County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-02-2015
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-19-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-10-2015
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-03-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No Violations
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-24-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

FUJIFILM WAKO DIAGNOSTICS U.S.A. CORPORATION (Continued) **S121792782**

Enforcement Action:

Site ID:	84059
Site Name:	FUJIFILM Wako Diagnostics U.S.A. Corporation
Site Address:	1025 TERRA BELLA AVENUE SUITE A
Site City:	MOUNTAIN VIEW
Site Zip:	94043
Enf Action Date:	06-18-2015
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Santa Clara County Environmental Health
Enf Action Program:	HW
Enf Action Source:	CERS

Affiliation:

Affiliation Type Desc:	Operator
Entity Name:	FUJIFILM Wako Diagnostics U.S.A. Corporation
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(650) 210-9153

Affiliation Type Desc:	CUPA District
Entity Name:	Santa Clara County Environmental Health
Entity Title:	Not reported
Affiliation Address:	1555 Berger Drive, Suite 300
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95112-2716
Affiliation Phone:	(408) 918-3400

Affiliation Type Desc:	Document Preparer
Entity Name:	JP Zhang
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:	JP Zhang
Entity Title:	VP of R&D
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

FUJIFILM WAKO DIAGNOSTICS U.S.A. CORPORATION (Continued) **S121792782**

Entity Name: FUJIFILM Wako Diagnostics U.S.A. Corporation
Entity Title: Not reported
Affiliation Address: 1025 Terra Bella Avenue
Affiliation City: Mountain View
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94043
Affiliation Phone: (650) 210-9153

Affiliation Type Desc: Environmental Contact
Entity Name: JP Zhang
Entity Title: Not reported
Affiliation Address: 1025 Terra Bella Avenue
Affiliation City: Mountain View
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94043
Affiliation Phone: (650) 210-9135

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1025 Terra Bella Avenue
Affiliation City: Mountain View
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94043
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: FUJIFILM Wako Diagnostics U.S.A. Corporation
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

CERS TANKS:
Site ID: 84059
CERS ID: 10343953
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 84059
Site Name: FUJIFILM Wako Diagnostics U.S.A. Corporation
Violation Date: 10-19-2015
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 02/24/2016. Update hazardous waste and add new locations for chemical storage.
Violation Division: Mountain View Fire Department

FUJIFILM WAKO DIAGNOSTICS U.S.A. CORPORATION (Continued) **S121792782**

Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	84059
Site Name:	FUJIFILM Wako Diagnostics U.S.A. Corporation
Violation Date:	11-02-2015
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Update HMMP in CERS.
Violation Division:	Mountain View Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	84059
Site Name:	FUJIFILM Wako Diagnostics U.S.A. Corporation
Violation Date:	06-18-2015
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 06/18/2015. 1 x 5 gallon plastic container of toxic hazardous waste in the warehouse had two labels. One label did not indicate the contents/composition of the waste, it was removed today.
Violation Division:	Santa Clara County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	84059
Site Name:	FUJIFILM Wako Diagnostics U.S.A. Corporation
Violation Date:	12-10-2015
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Location: Add waste flammable liquids (ethanol, terpineol) to inventory, and fix other inconsistencies in inventory.
Violation Division:	Mountain View Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-18-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Onsite today for routine hazardous waste inspection, noted the following: -Facility generates aqueous wastes with ethanol (profiled at 130 degree F - flash) and toxic thiocyanate aqueious waste. -Emergency information is available onsite. -Personnel appear familiar with hazardous waste operations. -Some wastes are accumulated in labs

FUJIFILM WAKO DIAGNOSTICS U.S.A. CORPORATION (Continued) **S121792782**

as satellite containers, then transferred to waste containers in the warehouse. -Accumulation times and storage is adequate with proper label detail information. Questions regarding this report, please contact Jeffrey M. Higbee at 408-918-4785

Eval Division: Santa Clara County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-02-2015
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-19-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-10-2015
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-03-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No Violations
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-24-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 84059
Site Name: FUJIFILM Wako Diagnostics U.S.A. Corporation
Site Address: 1025 TERRA BELLA AVENUE SUITE A

FUJIFILM WAKO DIAGNOSTICS U.S.A. CORPORATION (Continued) **S121792782**

Site City:	MOUNTAIN VIEW
Site Zip:	94043
Enf Action Date:	06-18-2015
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Santa Clara County Environmental Health
Enf Action Program:	HW
Enf Action Source:	CERS

Affiliation:

Affiliation Type Desc:	Operator
Entity Name:	FUJIFILM Wako Diagnostics U.S.A. Corporation
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(650) 210-9153

Affiliation Type Desc:	CUPA District
Entity Name:	Santa Clara County Environmental Health
Entity Title:	Not reported
Affiliation Address:	1555 Berger Drive, Suite 300
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95112-2716
Affiliation Phone:	(408) 918-3400

Affiliation Type Desc:	Document Preparer
Entity Name:	JP Zhang
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:	JP Zhang
Entity Title:	VP of R&D
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:	FUJIFILM Wako Diagnostics U.S.A. Corporation
Entity Title:	Not reported
Affiliation Address:	1025 Terra Bella Avenue
Affiliation City:	Mountain View
Affiliation State:	CA

FUJIFILM WAKO DIAGNOSTICS U.S.A. CORPORATION (Continued) **S121792782**

Affiliation Country:	United States
Affiliation Zip:	94043
Affiliation Phone:	(650) 210-9153
Affiliation Type Desc:	Environmental Contact
Entity Name:	JP Zhang
Entity Title:	Not reported
Affiliation Address:	1025 Terra Bella Avenue
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	(650) 210-9135
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1025 Terra Bella Avenue
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	FUJIFILM Wako Diagnostics U.S.A. Corporation
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

M82 **BD BIOSCIENCES CLONTECH** **CA CUPA Listings** **S121472561**
ESE **1025 TERRA BELLA AV** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94044**
0.139 mi.
734 ft. **Site 5 of 7 in cluster M**

Relative:
Higher

Actual:
39 ft.

CUPA SANTA CLARA:

Facility Name:	BD BIOSCIENCES CLONTECH
Region:	SANTA CLARA
PE#:	2206
Program Description:	GENERATES 5 TO <25 TONS/YR
Latitude:	37.408291
Longitude:	-122.073686
Record ID:	PR0371473
Facility ID:	FA0254627

M83 **B D BIOSCIENCE CLONTECH** **RCRA-SQG** **1004678334**
ESE **1025 TERRA BELLA AVE** **FINDS** **CAR000107698**
1/8-1/4 **MOUNTAIN VIEW, CA 94041** **ECHO**
0.139 mi. **CA HAZNET**
734 ft. **Site 6 of 7 in cluster M**

Relative:
Higher

Actual:
39 ft.

RCRA-SQG:

Date form received by agency:	10/16/2001
Facility name:	B D BIOSCIENCE CLONTECH
Facility address:	1025 TERRA BELLA AVE MOUNTAIN VIEW, CA 94041
EPA ID:	CAR000107698
Mailing address:	1020 E MEADOW CIR PALO ALTO, CA 94303
Contact:	GARY COX
Contact address:	1025 TERRA BELLA AVE MOUNTAIN VIEW, CA 94041
Contact country:	US
Contact telephone:	650-424-8222
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	TERRA BELLA INVESTMENT
Owner/operator address:	800 EL CAMINO REAL STE 175 MENLO PARK, CA 94025
Owner/operator country:	Not reported
Owner/operator telephone:	650-325-7600
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

B D BIOSCIENCE CLONTECH (Continued) **1004678334**

. Waste code: D018
. Waste name: BENZENE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D038
. Waste name: PYRIDINE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

FINDS:

Registry ID: 110012195837

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

B D BIOSCIENCE CLONTECH (Continued) **1004678334**

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:	1004678334
Registry ID:	110012195837
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110012195837

HAZNET:

Facility Name:	B D BIOSCIENCE CLONTECH
envid:	1004678334
Year:	2004
GEPAID:	CAR000107698
Contact:	Gary Cox
Telephone:	6504248222
Mailing Name:	Not reported
Mailing Address:	1290 TERRA BELLA AVE
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 940431837
Gen County:	Not reported
TSD EPA ID:	CAD008302903
TSD County:	Not reported
Waste Category:	Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method:	Recycler
Tons:	2.29
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

envid:	1004678334
Year:	2004
GEPAID:	CAR000107698
Contact:	Gary Cox
Telephone:	6504248222
Mailing Name:	Not reported
Mailing Address:	1290 TERRA BELLA AVE
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 940431837
Gen County:	Not reported
TSD EPA ID:	UTD981552177
TSD County:	Not reported
Waste Category:	Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method:	Not reported
Tons:	1.14
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

envid:	1004678334
Year:	2004
GEPAID:	CAR000107698
Contact:	Gary Cox
Telephone:	6504248222

B D BIOSCIENCE CLONTECH (Continued) **1004678334**

Mailing Name:	Not reported
Mailing Address:	1290 TERRA BELLA AVE
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 940431837
Gen County:	Not reported
TSD EPA ID:	UTD981552177
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Treatment, Incineration
Tons:	Not reported
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

envid:	1004678334
Year:	2003
GEPAID:	CAR000107698
Contact:	Gary Cox
Telephone:	6504248222
Mailing Name:	Not reported
Mailing Address:	1290 TERRA BELLA AVE
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 940431837
Gen County:	Not reported
TSD EPA ID:	CAD008302903
TSD County:	Not reported
Waste Category:	Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method:	Recycler
Tons:	6.88
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

envid:	1004678334
Year:	2002
GEPAID:	CAR000107698
Contact:	Gary Cox
Telephone:	6504248222
Mailing Name:	Not reported
Mailing Address:	1290 TERRA BELLA AVE
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 940431837
Gen County:	Not reported
TSD EPA ID:	CAD009007626
TSD County:	Not reported
Waste Category:	Not reported
Disposal Method:	Not reported
Tons:	0.03
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

Click this hyperlink while viewing on your computer to access
1 additional CA_HAZNET: record(s) in the EDR Site Report.

N84
South
1/8-1/4
0.141 mi.
743 ft.

SHORELINE SHELL #59
807 N SHORELINE BLVD
MOUNTAIN VIEW, CA 94043

Site 1 of 16 in cluster N

CA UST **U003779226**
N/A

Relative:
Higher

Actual:
43 ft.

UST:
Facility ID: 1639
Permitting Agency: MOUNTAIN VIEW, CITY OF
Latitude: 37.40658
Longitude: -122.07804

Facility ID: 724
Permitting Agency: Santa Clara County Environmental Health
Latitude: 37.40648
Longitude: -122.07766

N85
South
1/8-1/4
0.141 mi.
743 ft.

SHELL
807 SHORELINE
MOUNTAIN VIEW, CA 94043

Site 2 of 16 in cluster N

CA LUST **S104582789**
CA HIST LUST **N/A**
CA HIST CORTESE
CA CERS

Relative:
Higher

Actual:
43 ft.

LUST:
Lead Agency: SANTA CLARA COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608501309
Global Id: T0608501309
Latitude: 37.407206
Longitude: -122.0772
Status: Completed - Case Closed
Status Date: 08/06/2008
Case Worker: Not reported
RB Case Number: Not reported
Local Agency: Not reported
File Location: All Files are on GeoTracker or in the Local Agency Database
Local Case Number: 06S2W15N01f
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0608501309
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0608501309
Action Type: ENFORCEMENT
Date: 08/05/2008
Action: Staff Letter

Global Id: T0608501309
Action Type: RESPONSE
Date: 03/01/2002

SHELL (Continued) **S104582789**

Action: CAP/RAP - Feasibility Study Report

Global Id: T0608501309
Action Type: RESPONSE
Date: 03/21/1989
Action: Monitoring Report - Quarterly

Global Id: T0608501309
Action Type: RESPONSE
Date: 07/31/2001
Action: Monitoring Report - Quarterly

Global Id: T0608501309
Action Type: RESPONSE
Date: 06/16/1989
Action: Soil and Water Investigation Report

Global Id: T0608501309
Action Type: RESPONSE
Date: 01/28/1998
Action: Other Report / Document

Global Id: T0608501309
Action Type: RESPONSE
Date: 10/25/2001
Action: CAP/RAP - Other Report

Global Id: T0608501309
Action Type: RESPONSE
Date: 12/08/2003
Action: Monitoring Report - Quarterly

Global Id: T0608501309
Action Type: RESPONSE
Date: 10/17/1989
Action: Other Workplan

Global Id: T0608501309
Action Type: Other
Date: 09/14/1988
Action: Leak Reported

Global Id: T0608501309
Action Type: RESPONSE
Date: 12/15/1999
Action: Well Installation Report

Global Id: T0608501309
Action Type: RESPONSE
Date: 09/12/2007
Action: Well Destruction Report

Global Id: T0608501309
Action Type: ENFORCEMENT
Date: 08/06/2008
Action: Closure/No Further Action Letter

SHELL (Continued) **S104582789**

Global Id: T0608501309
Action Type: RESPONSE
Date: 03/21/2008
Action: Unknown

Global Id: T0608501309
Action Type: RESPONSE
Date: 02/14/2005
Action: Remedial Progress Report

Global Id: T0608501309
Action Type: REMEDIATION
Date: 07/21/1992
Action: Pump & Treat (P&T) Groundwater

Global Id: T0608501309
Action Type: REMEDIATION
Date: 04/01/1994
Action: Soil Vapor Extraction (SVE)

Global Id: T0608501309
Action Type: REMEDIATION
Date: 07/21/1992
Action: Excavation

Global Id: T0608501309
Action Type: REMEDIATION
Date: 04/15/2003
Action: Soil Vapor Extraction (SVE)

Global Id: T0608501309
Action Type: ENFORCEMENT
Date: 08/06/2008
Action: Closure/No Further Action Letter

Global Id: T0608501309
Action Type: ENFORCEMENT
Date: 06/03/2005
Action: Other Report

Global Id: T0608501309
Action Type: RESPONSE
Date: 01/30/1999
Action: Monitoring Report - Quarterly

Global Id: T0608501309
Action Type: RESPONSE
Date: 05/06/1994
Action: Interim Remedial Action Report

Global Id: T0608501309
Action Type: RESPONSE
Date: 06/03/1991
Action: Other Report / Document

Global Id: T0608501309
Action Type: RESPONSE

SHELL (Continued) **S104582789**

Date: 06/03/2005
Action: Other Report / Document

Global Id: T0608501309
Action Type: RESPONSE
Date: 10/19/1990
Action: Other Report / Document

Global Id: T0608501309
Action Type: RESPONSE
Date: 10/25/1996
Action: Monitoring Report - Quarterly

Global Id: T0608501309
Action Type: RESPONSE
Date: 06/30/1991
Action: Other Report / Document

Global Id: T0608501309
Action Type: RESPONSE
Date: 01/01/1990
Action: Correspondence

Global Id: T0608501309
Action Type: RESPONSE
Date: 07/17/1991
Action: Tank Removal Report / UST Sampling Report

Global Id: T0608501309
Action Type: ENFORCEMENT
Date: 08/22/1990
Action: Notice of Responsibility - #40187

Global Id: T0608501309
Action Type: ENFORCEMENT
Date: 12/16/1998
Action: Staff Letter - #30628

Global Id: T0608501309
Action Type: ENFORCEMENT
Date: 03/21/2008
Action: File review - #8002123

Global Id: T0608501309
Action Type: RESPONSE
Date: 09/14/1988
Action: Preliminary Site Assessment Report

Global Id: T0608501309
Action Type: RESPONSE
Date: 05/24/2000
Action: Other Report / Document

LUST:
Global Id: T0608501309
Status: Completed - Case Closed
Status Date: 08/06/2008

SHELL (Continued) **S104582789**

Global Id: T0608501309
Status: Open - Case Begin Date
Status Date: 08/02/1988

Global Id: T0608501309
Status: Open - Site Assessment
Status Date: 08/02/1988

Global Id: T0608501309
Status: Open - Site Assessment
Status Date: 02/15/1989

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Pollution Characterization
Case Number: 06S2W15N01f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 8/2/1988
Pollution Characterization Began: 2/15/1989
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 06S2W15N01F
Date Closed: 08/06/2008
EDR Link ID: 06S2W15N01F

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 06S2W15N01
Oversite Agency: SCVWD
Date Listed: 1989-01-01 00:00:00
Closed Date: Not reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-1331

CERS TANKS:
Site ID: 254426
CERS ID: T0608501309
CERS Description: Leaking Underground Storage Tank Cleanup Site

SHELL (Continued) **S104582789**

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

N86 **SHELL SERVICE STATION** **RCRA-SQG 1004677933**
South **807 N SHORELINE** **FINDS CAR000103150**
1/8-1/4 **MOUNTAIN VIEW, CA 94043** **ECHO**
0.141 mi. **CA CUPA Listings**
743 ft. **Site 3 of 16 in cluster N** **CA HAZNET**

Relative: Higher
Actual: 43 ft.

RCRA-SQG:
Date form received by agency: 08/15/2001
Facility name: SHELL SERVICE STATION
Facility address: 807 N SHORELINE
S A P 135633
MOUNTAIN VIEW, CA 94043
EPA ID: CAR000103150
Mailing address: P O BOX 2648
HOUSTON, TX 77252-2648
Contact: SONDRA BIENVENU
Contact address: P O BOX 2648
HOUSTON, TX 77252-2648
Contact country: US
Contact telephone: 713-241-5036
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: EQUILON ENTERPRISES L L C
Owner/operator address: P O BOX 2648
HOUSTON, TX 77252
Owner/operator country: Not reported
Owner/operator telephone: 713-241-5036
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:

SHELL SERVICE STATION (Continued) **1004677933**

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

FINDS:

Registry ID: 110012221345

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1004677933
Registry ID:	110012221345
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110012221345

CUPA SANTA CLARA:

Facility Name:	SHORELINE SHELL #59
Region:	SANTA CLARA
PE#:	2240

SHELL SERVICE STATION (Continued) **1004677933**

Program Description: GENERATES < 10 GAL/YR
Latitude: 37.4063685
Longitude: -122.0780576
Record ID: PR0381320
Facility ID: FA0260196

HAZNET:
Facility Name: ELVERTA SHELL
envid: 1004677933
Year: 2016
GEPAID: CAL000413188
Contact: JOHN ELLIS
Telephone: 5102703418
Mailing Name: Not reported
Mailing Address: 41805 ALBRAE ST
Mailing City,St,Zip: FREMONT, CA 94538
Gen County: Santa Clara
TSD EPA ID: UTD981552177
TSD County: 99
Waste Category: Other organic solids
Disposal Method: Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: 0.065
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Santa Clara

envid: 1004677933
Year: 2016
GEPAID: CAL000413188
Contact: JOHN ELLIS
Telephone: 5102703418
Mailing Name: Not reported
Mailing Address: 41805 ALBRAE ST
Mailing City,St,Zip: FREMONT, CA 94538
Gen County: Santa Clara
TSD EPA ID: CAD059494310
TSD County: Santa Clara
Waste Category: Aqueous solution with total organic residues 10 percent or more
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.175
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Santa Clara

envid: 1004677933
Year: 2009
GEPAID: CAR000103150
Contact: R HULL/ENV. REPORTING ANALYST
Telephone: 2818742224
Mailing Name: Not reported
Mailing Address: 12700 NORTHBOROUGH DR 300G03
Mailing City,St,Zip: Houston, TX 770670000
Gen County: Not reported
TSD EPA ID: CAD008302903
TSD County: Not reported
Waste Category: Other organic solids

SHELL SERVICE STATION (Continued) **1004677933**

Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.04
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

envid:	1004677933
Year:	2007
GEPAID:	CAR000103150
Contact:	R HULL/ENV. REPORTING ANALYST
Telephone:	2818742224
Mailing Name:	Not reported
Mailing Address:	12700 NORTHBOROUGH DR 300G03
Mailing City,St,Zip:	Houston, TX 770670000
Gen County:	Not reported
TSD EPA ID:	CAD008302903
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.02
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

envid:	1004677933
Year:	2007
GEPAID:	CAR000103150
Contact:	R HULL/ENV. REPORTING ANALYST
Telephone:	2818742224
Mailing Name:	Not reported
Mailing Address:	12700 NORTHBOROUGH DR 300G03
Mailing City,St,Zip:	Houston, TX 770670000
Gen County:	Not reported
TSD EPA ID:	NVT330010000
TSD County:	Not reported
Waste Category:	Alkaline solution without metals pH >= 12.5
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.45
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

Click this hyperlink while viewing on your computer to access
8 additional CA_HAZNET: record(s) in the EDR Site Report.

N87
South
1/8-1/4
0.141 mi.
743 ft.

SHELL
807 N SHORELINE BLVD
MOUNTAIN VIEW, CA 94040

Site 4 of 16 in cluster N

CA SWEEPS UST **S101594519**
CA FID UST **N/A**

Relative:
Higher

Actual:
43 ft.

SWEEPS UST:

Status:	Active
Comp Number:	2726
Number:	9
Board Of Equalization:	44-025979
Referral Date:	05-04-92
Action Date:	05-04-92
Created Date:	10-13-88
Owner Tank Id:	1
SWRCB Tank Id:	43-005-002726-000001
Tank Status:	A
Capacity:	12000
Active Date:	01-06-94
Tank Use:	M.V. FUEL
STG:	P
Content:	SUPER UNLEADED
Number Of Tanks:	4

Status:	Active
Comp Number:	2726
Number:	9
Board Of Equalization:	44-025979
Referral Date:	05-04-92
Action Date:	05-04-92
Created Date:	10-13-88
Owner Tank Id:	2
SWRCB Tank Id:	43-005-002726-000002
Tank Status:	A
Capacity:	12000
Active Date:	01-06-94
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	2726
Number:	9
Board Of Equalization:	44-025979
Referral Date:	05-04-92
Action Date:	05-04-92
Created Date:	10-13-88
Owner Tank Id:	3
SWRCB Tank Id:	43-005-002726-000003
Tank Status:	A
Capacity:	12000
Active Date:	01-06-94
Tank Use:	M.V. FUEL
STG:	P
Content:	SUPER REGULA
Number Of Tanks:	Not reported

Status:	Active

SHELL (Continued) **S101594519**

Comp Number: 2726
Number: 9
Board Of Equalization: 44-025979
Referral Date: 05-04-92
Action Date: 05-04-92
Created Date: 10-13-88
Owner Tank Id: 4
SWRCB Tank Id: 43-005-002726-000004
Tank Status: A
Capacity: 12000
Active Date: 01-06-94
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 43003746
Regulated By: UTNKA
Regulated ID: 00002726
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4159615858
Mail To: Not reported
Mailing Address: 807 STIERLIN RD
Mailing Address 2: Not reported
Mailing City,St,Zip: MOUNTAIN VIEW 94040
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

N88 **SHELL SERV STATION MT VIEW** **RCRA-SQG** **1000288536**
SSW **807 STIERLIN RD** **FINDS** **CAD980675904**
1/8-1/4 **MOUNTAIN VIEW, CA 94040** **ECHO**
0.141 mi.
745 ft. **Site 5 of 16 in cluster N**

Relative:
Higher

Actual:
43 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: SHELL SERV STATION MT VIEW
Facility address: 807 STIERLIN RD
MOUNTAIN VIEW, CA 94040
EPA ID: CAD980675904
Mailing address: PO BOX 5500
SAN BRUNO, CA 94066
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator

SHELL SERV STATION MT VIEW (Continued) **1000288536**

Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	SHELL OIL CO
Owner/operator address:	NOT REQUIRED
	NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED
	NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	01/05/1983
Site name:	SHELL SERV STATION MT VIEW
Classification:	Large Quantity Generator

Violation Status: No violations found

SHELL SERV STATION MT VIEW (Continued) **1000288536**

FINDS:

Registry ID: 110002670538

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: 1000288536
Registry ID: 110002670538
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002670538

N89 **JERAJR PANOSIAN** **CA HIST UST** **U001594318**
SSW **807 STIERLIN RD** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94040**
0.141 mi.
745 ft. **Site 6 of 16 in cluster N**

Relative:
Higher

Actual:
43 ft.

HIST UST:
File Number: 000208B2
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000208B2.pdf
Region: STATE
Facility ID: 00000002726
Facility Type: Gas Station
Other Type: Not reported
Contact Name: Not reported
Telephone: 4159615858
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: 1981
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor, Groundwater Monitoring Well, 10

Tank Num: 002
Container Num: 2
Year Installed: 1981
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: 1/4

JERAJR PANOSIAN (Continued) **U001594318**

Leak Detection: Stock Inventor, Groundwater Monitoring Well, 10

Tank Num: 003
Container Num: 3
Year Installed: 1981
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor, Groundwater Monitoring Well, 10

Tank Num: 004
Container Num: 4
Year Installed: 1983
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor, Groundwater Monitoring Well, 10

Click here for Geo Tracker PDF:

K90 **PALO ALTO BARKLAND BAPTIST CHURCH** **CA DEED** **S112853620**
SW **1250 WEST MIDDLEFIELD** **CA HAZNET** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 00000** **CA CERS**
0.143 mi.
756 ft. **Site 2 of 5 in cluster K**

Relative: Higher

Actual: 40 ft.

DEED:
Envirostor ID: SL721201221
Area: Not reported
Sub Area: Not reported
Site Type: SLIC
Status: OPEN - REMEDIATION
Agency: SWRCB
Covenant Uploaded: Y
Deed Date(s): 09/18/2012
File Name: Geotracker Land Use/Deed Restrictions

Envirostor ID: SL721201221
Area: Not reported
Sub Area: Not reported
Site Type: SLIC
Status: OPEN - REMEDIATION
Agency: SWRCB
Covenant Uploaded: Y
Deed Date(s): 09/07/1994
File Name: Geotracker Land Use/Deed Restrictions

HAZNET:
Facility Name: PALO ALTO BARKLAND BAPTIST CHURCH
envid: S112853620
Year: 1994
GEPAID: CAC000927256
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported

PALO ALTO BARKLAND BAPTIST CHURCH (Continued) **S112853620**

Mailing Address: 1250 WEST MIDDLEFIELD
Mailing City,St,Zip: MOUNTAIN VIEW, CA 000000000
Gen County: Not reported
TSD EPA ID: CAL000027741
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Disposal, Land Fill
Tons: 7.5852
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Santa Clara

CERS TANKS:
Site ID: 251926
CERS ID: SL721201221
CERS Description: Cleanup Program Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: GEORGE COOK - SANTA CLARA VALLEY WATER DISTRICT
Entity Title: Not reported
Affiliation Address: 5750 ALMADEN EXPRESSWAY
Affiliation City: SAN JOSE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 4082652607

Affiliation Type Desc: Regional Board Caseworker
Entity Name: Roger Papler - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY STREET, SUITE 1500
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

K91 **SPECTRA-PHYSICS LASERS** **CA CPS-SLIC** **S106235031**
SW **1250 WEST MIDDLEFIELD RD** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.143 mi.
756 ft. **Site 3 of 5 in cluster K**

Relative:
Higher

Actual:
40 ft.

SLIC REG 2:
Region: 2
Facility ID: 43S0120
Facility Status: Remedial action (cleanup) Underway
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported

SPECTRA-PHYSICS LASERS (Continued) **S106235031**

Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

K92 **SPECTRA PHYSICS, INC.** **CA ENVIROSTOR** **S105628344**
SW **1250 W MIDDLEFIELD RD** **CA HIST Cal-Sites** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043** **CA HWP**
0.143 mi.
756 ft. **Site 4 of 5 in cluster K**

Relative:
Higher

Actual:
40 ft.

ENVIROSTOR:

Facility ID:	43360084
Status:	Refer: RWQCB
Status Date:	02/01/1991
Site Code:	Not reported
Site Type:	Federal Superfund
Site Type Detailed:	State Response or NPL
Acres:	Not reported
NPL:	YES
Regulatory Agencies:	US EPA
Lead Agency:	US EPA
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Berkeley
Assembly:	24
Senate:	13
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.40794
Longitude:	-122.0802
APN:	153-14-003
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	SPECTRA-PHYSICS
Alias Type:	Alternate Name
Alias Name:	153-14-003
Alias Type:	APN
Alias Name:	CAD009138488
Alias Type:	EPA Identification Number
Alias Name:	110009267578
Alias Type:	EPA (FRS #)
Alias Name:	CAD009138488
Alias Type:	HWTS Identification Code
Alias Name:	P23083
Alias Type:	PCode
Alias Name:	43360084
Alias Type:	Envirostor ID Number
Alias Name:	80001604
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported

SPECTRA PHYSICS, INC. (Continued) **S105628344**

Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Facility ID: 80001604
Status: Refer: RWQCB
Status Date: 01/01/1982
Site Code: Not reported
Site Type: Corrective Action
Site Type Detailed: Corrective Action
Acres: 11.5
NPL: YES
Regulatory Agencies: RWQCB 2 - San Francisco Bay
Lead Agency: RWQCB 2 - San Francisco Bay
Program Manager: Not reported
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Assembly: 24
Senate: 13
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.40794
Longitude: -122.0802
APN: 153-14-003
Past Use: MANUFACTURING - ELECTRONIC
Potential COC: Freon 113 Tetrachloroethylene (PCE 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride 1,1-Dichloroethane 1,1-Dichloroethylene Toluene
Confirmed COC: Freon 113 Tetrachloroethylene (PCE 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride 1,1-Dichloroethane 1,1-Dichloroethylene Toluene
Potential Description: OTH, SOIL, SV
Alias Name: 153-14-003
Alias Type: APN
Alias Name: CAD009138488
Alias Type: EPA Identification Number
Alias Name: 110009267578
Alias Type: EPA (FRS #)
Alias Name: SL721201221
Alias Type: GeoTracker Global ID
Alias Name: 43360084
Alias Type: Envirostor ID Number
Alias Name: 80001604
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE

SPECTRA PHYSICS, INC. (Continued) **S105628344**

Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 06/01/1987
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 04/01/1987
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Calsite:
Region: BERKELEY
Facility ID: 43360084
Facility Type: NPRP
Type: NPL SITE, RP-FUNDED
Branch: NC
Branch Name: NORTH COAST
File Name: Not reported
State Senate District: 02011991
Status: DOES NOT REQUIRE DTSC ACTION. REFERRED TO REGIONAL WATER QUALITY CONTROL BOARD (RWQCB) LEAD
Status Name: PROPERTY/SITE REFERRED TO RWQCB
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: Not reported
Supervisor Responsible for Site: Not reported
Region Water Control Board: Not reported
Region Water Control Board Name: Not reported
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: 22
State Senate District Code: 13
Facility ID: Not reported
Activity: Not reported
Activity Name: Not reported
AWP Code: Not reported
Proposed Budget: Not reported

SPECTRA PHYSICS, INC. (Continued) **S105628344**

AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: Not reported
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: Not reported
Definition of Status: Not reported
Liquids Removed (Gals): Not reported
Liquids Treated (Gals): Not reported
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: Not reported
For Industrial Reuse: Not reported
For Residential Reuse: Not reported
Unknown Type: Not reported
Alternate Address: 1250 WEST MIDDLEFIELD ROAD
Alternate City,St,Zip: MOUNTAIN VIEW, CA 94042
Alternate Address: 1250 W MIDDLEFIELD RD
Alternate City,St,Zip: MOUNTAIN VIEW, CA 94043
Alternate Address: 1250 W MIDDLEFIELD RD
Alternate City,St,Zip: MOUNTAIN VIEW, CA 94043
Background Info: Not reported
Comments Date: 01011989
Comments: This is the date the site was first listed AWP pursuant to
Comments Date: 01011989
Comments: Section 25356
Comments Date: 07251991
Comments: Groundwater and soil is contaminated with VOCs. Elevated
Comments Date: 07251991
Comments: concentrations of VOCs detected in water samples from
Comments Date: 07251991
Comments: Permanente Creek. Potential health threats include drinking,
Comments Date: 07251991
Comments: touching, or inhaling groundwater and groundwater vapors or
Comments Date: 07251991
Comments: touching/ingesting contaminated soils.
Comments Date: 07251991
Comments: Site is currently under RWQCB oversight.
ID Name: HWIS IDENTIFICATION CODE
ID Value: CAD009138488
ID Name: BEP DATABASE PCODE
ID Value: P23083
Alternate Name: SPECTRA-PHYSICS
Alternate Name: SPECTRA PHYSICS, INC.
Alternate Name: Not reported
Special Programs Code: Not reported
Special Programs Name: Not reported

HWP:
EPA Id: CAD009138488
Cleanup Status: CLOSED
Latitude: 37.40794
Longitude: -122.0802

SPECTRA PHYSICS, INC. (Continued) **S105628344**

Facility Type:	Historical - Non-Operating
Facility Size:	Not reported
Team:	Not reported
Supervisor:	Not reported
Site Code:	Not reported
Assembly District:	24
Senate District:	13
Public Information Officer:	Not reported
Public Information Officer:	Not reported

Closure:

EPA Id:	CAD009138488
Facility Type:	Historical - Non-Operating
Unit Names:	UNIT1
Event Description:	Closure Administrative - ISSUE CLOSURE VERIFICATION
Actual Date:	05/24/2018

Alias:

EPA Id:	CAD009138488
Facility Type:	Historical - Non-Operating
Alias Type:	Envirostor ID Number
Alias:	43360084

K93 **SPECTRA-PHYSICS LASERS** **CA CPS-SLIC** **S103980880**
SW **1250 WEST MIDDLEFIELD RD** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.143 mi.
756 ft. **Site 5 of 5 in cluster K**

Relative: **Higher**

Actual: **40 ft.**

CPS-SLIC:

Region:	STATE
Facility Status:	**Open - Remediation**
Status Date:	01/04/1990
Global Id:	SL721201221
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	Not reported
Latitude:	37.407804
Longitude:	-122.079986
Case Type:	Cleanup Program Site
Case Worker:	RWP
Local Agency:	SANTA CLARA VALLEY WATER DISTRICT
RB Case Number:	43S0120
File Location:	Regional Board
Potential Media Affected:	Other Groundwater (uses other than drinking water), Soil, Soil Vapor
Potential Contaminants of Concern:	Other Chlorinated Hydrocarbons, Trichloroethylene (TCE)
Site History:	The former Spectraphysics property is part of a 2-property Federal Superfund site along with the adjacent Teledyne property. Within the last ten years, Responsible Parties (RPs) for the Teledyne/Spectra-Physics site completed a Monitored Natural Attenuation (MNA) study in the off-property area north of and downgradient of the site. The MNA study concluded that natural breakdown of the chlorinated volatile organic compounds of concern is occurring naturally and at the same rate as groundwater extraction. As a result, only a few of the off-property downgradient extraction wells are operating mainly to maintain hydraulic control of the plume. The RPs completed an extended pilot study to test the feasiblity of enhanced reductive dechlorination (ERD) and concluded

SPECTRA-PHYSICS LASERS (Continued) **S103980880**

that ERD is feasible with bioaugmentation of the Shallow Zone. Within the last several years, the RPs detected on-property groundwater-CVOCs and higher than expected levels but under 1,000 parts per billion and are about to impelment an on-property ERD treatability study with the same recirculation technology as the the neighboring Teledyne property. When sub-slab depressurizationv (SSD) systems have been installed under the potentially impacted buildings, the RPs will move forward on the ERD treatability study. Within the last seven years however, IA VI was evaluated in several of the on-property commercial buildings to find that IA-CVOCs were over ESLs. The RPs installed SSD systems at several of the buildings. The RPs also assertiively evaluated potential IA VI in the off-property commercial North Bayshore and residential Spring Street areas to conclude that IA VI is occurring in one of the off-property commercial area buildings and in several homes in the residential area. The RPs were in the process of installing a sub-slab depressurization system in the commercial building and offered the affected residents crawl space fans to address the issue.

Click here to access the California GeoTracker records for this facility:

N94 **96377** **CA HIST UST** **U001594299**
SSW **808 STIERLIN RD** **N/A**
1/8-1/4 **MT VIEW, CA 94040**
0.145 mi.
764 ft. **Site 7 of 16 in cluster N**

Relative: **Higher**

Actual: **43 ft.**

HIST UST:

File Number:	0002D078
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002D078.pdf
Region:	STATE
Facility ID:	00000062878
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	BAILEY, WILLIAM J
Telephone:	4159679068
Owner Name:	CHEVRON U.S.A. INC.
Owner Address:	575 MARKET
Owner City,St,Zip:	SAN FRANCISCO, CA 94105
Total Tanks:	0004
Tank Num:	001
Container Num:	1
Year Installed:	1960
Tank Capacity:	00005000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	0000250
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	1960
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	0000170
Leak Detection:	Stock Inventor

96377 (Continued) **U001594299**

Tank Num:	003
Container Num:	3
Year Installed:	1960
Tank Capacity:	00005000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	0000250
Leak Detection:	Stock Inventor

Tank Num:	004
Container Num:	4
Year Installed:	1960
Tank Capacity:	00000550
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	0000100
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

N95 **BILL BAILEY CHEVRON #9-6377** **CA UST** **U004262833**
SSW **808 SHORELINE BLVD. NORTH** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.145 mi.
767 ft. **Site 8 of 16 in cluster N**

Relative: UST:
Higher

Facility ID:	725
Permitting Agency:	Santa Clara County Environmental Health
Latitude:	37.40689
Longitude:	-122.0786

Actual:
43 ft.

N96 **CHEVRON** **CA SWEEPS UST** **S106924287**
SSW **808 N SHORELINE BLVD** **N/A**
1/8-1/4 **MOUNTAINVIEW, CA 94040**
0.145 mi.
767 ft. **Site 9 of 16 in cluster N**

Relative: SWEEPS UST:
Higher

Status:	Active
Comp Number:	62878
Number:	1
Board Of Equalization:	44-026015
Referral Date:	09-26-91
Action Date:	02-25-94
Created Date:	02-25-94
Owner Tank Id:	1
SWRCB Tank Id:	43-005-062878-000001
Tank Status:	A
Capacity:	10000
Active Date:	01-16-90
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	3

Actual:
43 ft.

CHEVRON (Continued) **S106924287**

Status: Active
Comp Number: 62878
Number: 1
Board Of Equalization: 44-026015
Referral Date: 09-26-91
Action Date: 02-25-94
Created Date: 02-25-94
Owner Tank Id: 2
SWRCB Tank Id: 43-005-062878-000002
Tank Status: A
Capacity: 10000
Active Date: 01-06-94
Tank Use: M.V. FUEL
STG: P
Content: SUPER UNLEAD
Number Of Tanks: Not reported

Status: Active
Comp Number: 62878
Number: 1
Board Of Equalization: 44-026015
Referral Date: 09-26-91
Action Date: 02-25-94
Created Date: 02-25-94
Owner Tank Id: 3
SWRCB Tank Id: 43-005-062878-000003
Tank Status: A
Capacity: 10000
Active Date: 01-06-94
Tank Use: M.V. FUEL
STG: P
Content: PLUS UNLEADE
Number Of Tanks: Not reported

N97 **CHEVRON 96377** **CA CPS-SLIC** **S103672982**
SSW **808 SHORELINE BLVD** **CA CERS HAZ WASTE** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94040** **CA CERS TANKS**
0.145 mi. **CA HIST CORTESE**
767 ft. **Site 10 of 16 in cluster N** **CA CERS**
CA NON-CASE INFO

Relative:
Higher

Actual:
43 ft.

SLIC REG 2:
Region: 2
Facility ID: SLT2O112118
Facility Status: Leak being confirmed
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CHEVRON 96377 (Continued) **S103672982**

CERS HAZ WASTE:
Site ID: 98840
CERS ID: 10355827
CERS Description: Hazardous Waste Generator

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-16-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No Violations
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-20-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-20-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-21-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-17-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-21-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department

CHEVRON 96377 (Continued) **S103672982**

Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-29-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-16-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No Violations
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-17-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-29-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Affiliation:
Affiliation Type Desc: Identification Signer
Entity Name: Ted Lamph
Entity Title: Retail OE/HES 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: Operator
Entity Name: CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported

CHEVRON 96377 (Continued) **S103672982**

Affiliation Zip: Not reported
Affiliation Phone: (650) 965-8506

Affiliation Type Desc: UST Tank Owner
Entity Name: CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title: Not reported
Affiliation Address: P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City: SAN RAMON
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94583
Affiliation Phone: (925) 842-9002

Affiliation Type Desc: Property Owner
Entity Name: CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title: Not reported
Affiliation Address: P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City: SAN RAMON
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94583
Affiliation Phone: (925) 842-9002

Affiliation Type Desc: UST Tank Operator
Entity Name: CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title: Not reported
Affiliation Address: P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City: SAN RAMON
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94583
Affiliation Phone: (925) 842-9002

Affiliation Type Desc: CUPA District
Entity Name: Santa Clara County Environmental Health
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: San Jose
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95112-2716
Affiliation Phone: (408) 918-3400

Affiliation Type Desc: Environmental Contact
Entity Name: CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title: Not reported
Affiliation Address: P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City: SAN RAMON
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94583
Affiliation Phone: (925) 842-9002

Affiliation Type Desc: UST Permit Applicant
Entity Name: CHARLES BITTLE
Entity Title: RETAIL HES
Affiliation Address: Not reported

CHEVRON 96377 (Continued) **S103672982**

Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(925) 842-9002
Affiliation Type Desc:	Document Preparer
Entity Name:	TED LAMPH
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:	P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City:	SAN RAMON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94583
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title:	Not reported
Affiliation Address:	P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City:	SAN RAMON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94583
Affiliation Phone:	(650) 965-8506
Affiliation Type Desc:	Parent Corporation
Entity Name:	CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. 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:	UST Property Owner Name
Entity Name:	CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title:	Not reported
Affiliation Address:	P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City:	SAN RAMON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94583
Affiliation Phone:	(925) 842-9002

CHEVRON 96377 (Continued) **S103672982**

CERS TANKS:
Site ID: 98840
CERS ID: 10355827
CERS Description: Underground Storage Tank

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-16-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No Violations
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-20-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-20-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-21-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-17-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-21-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department

CHEVRON 96377 (Continued) **S103672982**

Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-29-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-16-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No Violations
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-17-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-29-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Affiliation:
Affiliation Type Desc: Identification Signer
Entity Name: Ted Lamph
Entity Title: Retail OE/HES 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: Operator
Entity Name: CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported

CHEVRON 96377 (Continued) **S103672982**

Affiliation Zip: Not reported
Affiliation Phone: (650) 965-8506

Affiliation Type Desc: UST Tank Owner
Entity Name: CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title: Not reported
Affiliation Address: P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City: SAN RAMON
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94583
Affiliation Phone: (925) 842-9002

Affiliation Type Desc: Property Owner
Entity Name: CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title: Not reported
Affiliation Address: P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City: SAN RAMON
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94583
Affiliation Phone: (925) 842-9002

Affiliation Type Desc: UST Tank Operator
Entity Name: CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title: Not reported
Affiliation Address: P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City: SAN RAMON
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94583
Affiliation Phone: (925) 842-9002

Affiliation Type Desc: CUPA District
Entity Name: Santa Clara County Environmental Health
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: San Jose
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95112-2716
Affiliation Phone: (408) 918-3400

Affiliation Type Desc: Environmental Contact
Entity Name: CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title: Not reported
Affiliation Address: P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City: SAN RAMON
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94583
Affiliation Phone: (925) 842-9002

Affiliation Type Desc: UST Permit Applicant
Entity Name: CHARLES BITTLE
Entity Title: RETAIL HES
Affiliation Address: Not reported

CHEVRON 96377 (Continued) **S103672982**

Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(925) 842-9002
Affiliation Type Desc:	Document Preparer
Entity Name:	TED LAMPH
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:	P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City:	SAN RAMON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94583
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title:	Not reported
Affiliation Address:	P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City:	SAN RAMON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94583
Affiliation Phone:	(650) 965-8506
Affiliation Type Desc:	Parent Corporation
Entity Name:	CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. 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:	UST Property Owner Name
Entity Name:	CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title:	Not reported
Affiliation Address:	P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City:	SAN RAMON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94583
Affiliation Phone:	(925) 842-9002

CHEVRON 96377 (Continued) **S103672982**

HIST CORTESE:
- Region: CORTESE
- Facility County Code: 43
- Reg By: LTNKA
- Reg Id: 43-1822

CERS TANKS:
- Site ID: 98840
- CERS ID: 10355827
- CERS Description: Chemical Storage Facilities

Evaluation:
- Eval General Type: Compliance Evaluation Inspection
- Eval Date: 01-16-2018
- Violations Found: No
- Eval Type: Routine done by local agency
- Eval Notes: No Violations
- Eval Division: Mountain View Fire Department
- Eval Program: UST
- Eval Source: CERS

- Eval General Type: Compliance Evaluation Inspection
- Eval Date: 01-20-2016
- Violations Found: No
- Eval Type: Routine done by local agency
- Eval Notes: No violations
- Eval Division: Mountain View Fire Department
- Eval Program: HMRRP
- Eval Source: CERS

- Eval General Type: Compliance Evaluation Inspection
- Eval Date: 01-20-2016
- Violations Found: No
- Eval Type: Routine done by local agency
- Eval Notes: No violations
- Eval Division: Mountain View Fire Department
- Eval Program: UST
- Eval Source: CERS

- Eval General Type: Compliance Evaluation Inspection
- Eval Date: 01-21-2015
- Violations Found: No
- Eval Type: Routine done by local agency
- Eval Notes: Not reported
- Eval Division: Mountain View Fire Department
- Eval Program: UST
- Eval Source: CERS

- Eval General Type: Compliance Evaluation Inspection
- Eval Date: 01-17-2017
- Violations Found: No
- Eval Type: Routine done by local agency
- Eval Notes: No violations
- Eval Division: Mountain View Fire Department
- Eval Program: HMRRP
- Eval Source: CERS

CHEVRON 96377 (Continued) **S103672982**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-21-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-29-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-16-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No Violations
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-17-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations
Eval Division:	Mountain View Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-29-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Affiliation:

Affiliation Type Desc:	Identification Signer
Entity Name:	Ted Lamph
Entity Title:	Retail OE/HES 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:	Operator

CHEVRON 96377 (Continued) **S103672982**

Entity Name: CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. 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: (650) 965-8506

Affiliation Type Desc: UST Tank Owner
Entity Name: CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title: Not reported
Affiliation Address: P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City: SAN RAMON
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94583
Affiliation Phone: (925) 842-9002

Affiliation Type Desc: Property Owner
Entity Name: CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title: Not reported
Affiliation Address: P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City: SAN RAMON
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94583
Affiliation Phone: (925) 842-9002

Affiliation Type Desc: UST Tank Operator
Entity Name: CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title: Not reported
Affiliation Address: P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City: SAN RAMON
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94583
Affiliation Phone: (925) 842-9002

Affiliation Type Desc: CUPA District
Entity Name: Santa Clara County Environmental Health
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: San Jose
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95112-2716
Affiliation Phone: (408) 918-3400

Affiliation Type Desc: Environmental Contact
Entity Name: CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title: Not reported
Affiliation Address: P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City: SAN RAMON
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94583

CHEVRON 96377 (Continued) **S103672982**

Affiliation Phone:	(925) 842-9002
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	CHARLES BITTLE
Entity Title:	RETAIL HES
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(925) 842-9002
Affiliation Type Desc:	Document Preparer
Entity Name:	TED LAMPH
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:	P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City:	SAN RAMON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94583
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title:	Not reported
Affiliation Address:	P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City:	SAN RAMON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94583
Affiliation Phone:	(650) 965-8506
Affiliation Type Desc:	Parent Corporation
Entity Name:	CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. 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:	UST Property Owner Name
Entity Name:	CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title:	Not reported
Affiliation Address:	P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City:	SAN RAMON

CHEVRON 96377 (Continued) **S103672982**

Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94583
Affiliation Phone: (925) 842-9002

NON-CASE INFO:
Global ID: SLT2O112118
Case Type: Non-Case Information
Status: Informational Item
Status Date: 03/09/2001
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker: UUU
Local Agency: Not reported
RB Case Number: 43S0801
Loc Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported
Begin Date: 2001-03-08 00:00:00
How Discovered: Not reported
How Discovered Description: Not reported
Stop Method: Not reported
Stop Description: Not reported
Latitude: 37.4068483436619
Longitude: -122.078474291016
Geotracker: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=SLT2O112118

N98 **CHEVRON #9-6377** **CA LUST** **S101594506**
SSW **808 N SHORELINE BLVD** **CA HIST LUST** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94040** **CA SWEEPS UST**
0.145 mi. **CA FID UST**
767 ft. **Site 11 of 16 in cluster N** **CA CERS**

Relative: Higher
Actual: 43 ft.

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Pollution Characterization
Case Number: 06S2W16J01f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 4/6/1988
Pollution Characterization Began: 4/16/1988
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 06S2W16J01F
Date Closed: 05/18/2005
EDR Link ID: 06S2W16J01F

CHEVRON #9-6377 (Continued) **S101594506**

HIST LUST SANTA CLARA:
- Region: SANTA CLARA
- Region Code: 2
- SCVWD ID: 06S2W16J01
- Oversite Agency: SCVWD
- Date Listed: 1989-01-01 00:00:00
- Closed Date: Not reported

SWEEPS UST:
- Status: Not reported
- Comp Number: 62878
- Number: Not reported
- Board Of Equalization: 44-026015
- Referral Date: Not reported
- Action Date: Not reported
- Created Date: Not reported
- Owner Tank Id: Not reported
- SWRCB Tank Id: 43-005-062878-000004
- Tank Status: Not reported
- Capacity: 550
- Active Date: Not reported
- Tank Use: UNKNOWN
- STG: PRODUCT
- Content: UNKNOWN
- Number Of Tanks: 1

CA FID UST:
- Facility ID: 43002709
- Regulated By: UTNKA
- Regulated ID: 00062878
- Cortese Code: Not reported
- SIC Code: Not reported
- Facility Phone: 4159679068
- Mail To: Not reported
- Mailing Address: 808 STIERLIN RD
- Mailing Address 2: Not reported
- Mailing City,St,Zip: MOUNTAIN VIEW 94040
- Contact: Not reported
- Contact Phone: Not reported
- DUNs Number: Not reported
- NPDES Number: Not reported
- EPA ID: Not reported
- Comments: Not reported
- Status: Active

CERS TANKS:
- Site ID: 198863
- CERS ID: T0608501749
- CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
- Affiliation Type Desc: Local Agency Caseworker
- Entity Name: UST CASE WORKER - SANTA CLARA COUNTY LOP
- Entity Title: Not reported
- Affiliation Address: 1555 Berger Drive, Suite 300
- Affiliation City: SAN JOSE

CHEVRON #9-6377 (Continued) **S101594506**

Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	4089183400
Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

N99 **BILL BAILEY CHEVRON #9-6377** **CA UST** **U003779228**
SSW **808 N SHORELINE BLVD** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.145 mi.
767 ft. **Site 12 of 16 in cluster N**

Relative: UST:
Higher

Facility ID:	1640
Permitting Agency:	MOUNTAIN VIEW, CITY OF
Latitude:	37.4066
Longitude:	-122.07808

Actual:
43 ft.

N100 **CHEVRON STATION NO 96377** **RCRA-SQG** **1006804980**
SSW **808 N SHORELINE BLVD** **CA LUST** **CAR000119206**
1/8-1/4 **MOUNTAIN VIEW, CA 94043** **FINDS**
0.145 mi. **ECHO**
767 ft. **Site 13 of 16 in cluster N** **CA CUPA Listings**

Relative: RCRA-SQG:
Higher

Date form received by agency:	05/16/2002
Facility name:	CHEVRON STATION NO 96377
Facility address:	808 N SHORELINE BLVD MOUNTAIN VIEW, CA 94043-1931
EPA ID:	CAR000119206
Mailing address:	P O BOX 6004 SAN RAMON, CA 94583
Contact:	KATHY NORRIS
Contact address:	P O BOX 6004 SAN RAMON, CA 94583
Contact country:	US
Contact telephone:	925-842-5931
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Actual:
43 ft.

CHEVRON STATION NO 96377 (Continued) **1006804980**

Owner/Operator Summary:
- Owner/operator name: CHEVRON PRODUCTS CO
- Owner/operator address: P O BOX 6004
  SAN RAMON, CA 94583
- Owner/operator country: Not reported
- Owner/operator telephone: 925-842-5931
- Owner/operator email: Not reported
- Owner/operator fax: Not reported
- Owner/operator extension: Not reported
- Legal status: Private
- Owner/Operator Type: Owner
- Owner/Op start date: Not reported
- Owner/Op end date: Not reported

Handler Activities Summary:
- U.S. importer of hazardous waste: No
- Mixed waste (haz. and radioactive): No
- Recycler of hazardous waste: No
- Transporter of hazardous waste: No
- Treater, storer or disposer of HW: No
- Underground injection activity: No
- On-site burner exemption: No
- Furnace exemption: No
- Used oil fuel burner: No
- Used oil processor: No
- User oil refiner: No
- Used oil fuel marketer to burner: No
- Used oil Specification marketer: No
- Used oil transfer facility: No
- Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D018
. Waste name: BENZENE

Violation Status: No violations found

LUST:
- Lead Agency: SANTA CLARA COUNTY LOP
- Case Type: LUST Cleanup Site
- Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608501749
- Global Id: T0608501749
- Latitude: 37.407023
- Longitude: -122.077354
- Status: Completed - Case Closed
- Status Date: 05/18/2005
- Case Worker: UST
- RB Case Number: Not reported
- Local Agency: SANTA CLARA COUNTY LOP

CHEVRON STATION NO 96377 (Continued) **1006804980**

File Location: All Files are on GeoTracker or in the Local Agency Database
Local Case Number: Not reported
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0608501749
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

Global Id: T0608501749
Contact Type: Local Agency Caseworker
Contact Name: UST CASE WORKER
Organization Name: SANTA CLARA COUNTY LOP
Address: 1555 Berger Drive, Suite 300
City: SAN JOSE
Email: Not reported
Phone Number: 4089183400

LUST:
Global Id: T0608501749
Action Type: RESPONSE
Date: 07/30/1996
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 04/30/1997
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 07/30/1999
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 10/15/2001
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: ENFORCEMENT
Date: 08/16/1994
Action: Referral to Local Agency - #43-1822

Global Id: T0608501749
Action Type: Other
Date: 04/06/1988
Action: Leak Reported

Global Id: T0608501749

CHEVRON STATION NO 96377 (Continued) **1006804980**

Action Type: RESPONSE
Date: 02/10/1999
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 06/09/2003
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 01/24/1991
Action: Other Report / Document

Global Id: T0608501749
Action Type: RESPONSE
Date: 04/12/1988
Action: Unauthorized Release Form

Global Id: T0608501749
Action Type: RESPONSE
Date: 06/11/1991
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 03/30/2001
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 10/08/2001
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 10/30/2002
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 01/03/2003
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: ENFORCEMENT
Date: 11/08/1989
Action: Notice of Responsibility - #40206

Global Id: T0608501749
Action Type: RESPONSE
Date: 07/15/2001
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 10/15/2000

CHEVRON STATION NO 96377 (Continued) **1006804980**

Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 02/27/1991
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 08/28/1993
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 11/04/1993
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 10/15/2001
Action: Other Report / Document

Global Id: T0608501749
Action Type: RESPONSE
Date: 09/24/1996
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 07/31/1990
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 03/27/1990
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 02/28/2001
Action: Request for Closure

Global Id: T0608501749
Action Type: RESPONSE
Date: 07/07/1999
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 09/19/1999
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 09/28/2000
Action: Monitoring Report - Quarterly

CHEVRON STATION NO 96377 (Continued) **1006804980**

Global Id: T0608501749
Action Type: RESPONSE
Date: 12/28/2000
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 10/15/2001
Action: Other Report / Document

Global Id: T0608501749
Action Type: RESPONSE
Date: 04/05/1995
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 07/10/1995
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 11/03/1995
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 03/27/1996
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 03/10/2003
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 12/03/1993
Action: Other Report / Document

Global Id: T0608501749
Action Type: RESPONSE
Date: 09/13/1999
Action: Other Report / Document

Global Id: T0608501749
Action Type: RESPONSE
Date: 06/01/1992
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 08/28/1992
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE

CHEVRON STATION NO 96377 (Continued) **1006804980**

Date: 05/12/1988
Action: Tank Removal Report / UST Sampling Report

Global Id: T0608501749
Action Type: RESPONSE
Date: 06/02/1989
Action: Well Installation Report

Global Id: T0608501749
Action Type: RESPONSE
Date: 04/25/2005
Action: Well Destruction Report

Global Id: T0608501749
Action Type: RESPONSE
Date: 02/23/1990
Action: Other Workplan

Global Id: T0608501749
Action Type: RESPONSE
Date: 05/23/1991
Action: Other Workplan

Global Id: T0608501749
Action Type: RESPONSE
Date: 06/07/2001
Action: Other Workplan

Global Id: T0608501749
Action Type: RESPONSE
Date: 05/25/1989
Action: Other Workplan

Global Id: T0608501749
Action Type: RESPONSE
Date: 11/07/1990
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: ENFORCEMENT
Date: 05/31/2001
Action: Staff Letter - #30461

Global Id: T0608501749
Action Type: ENFORCEMENT
Date: 08/31/2000
Action: Staff Letter - #30455

Global Id: T0608501749
Action Type: ENFORCEMENT
Date: 06/15/1999
Action: Staff Letter - #30451

Global Id: T0608501749
Action Type: ENFORCEMENT
Date: 05/18/2005
Action: Closure/No Further Action Letter

CHEVRON STATION NO 96377 (Continued) **1006804980**

Global Id: T0608501749
Action Type: RESPONSE
Date: 09/28/2001
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 02/22/1990
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 10/13/2008
Action: Preliminary Site Assessment Report

Global Id: T0608501749
Action Type: RESPONSE
Date: 04/01/1989
Action: Other Report / Document

Global Id: T0608501749
Action Type: RESPONSE
Date: 04/01/1991
Action: Other Report / Document

Global Id: T0608501749
Action Type: RESPONSE
Date: 04/12/1988
Action: Correspondence

Global Id: T0608501749
Action Type: RESPONSE
Date: 09/01/2001
Action: Other Report / Document

Global Id: T0608501749
Action Type: RESPONSE
Date: 09/22/1989
Action: Soil and Water Investigation Report

Global Id: T0608501749
Action Type: RESPONSE
Date: 07/19/1994
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 02/06/1995
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 04/13/1989
Action: Soil and Water Investigation Report

Global Id: T0608501749
Action Type: RESPONSE

CHEVRON STATION NO 96377 (Continued) **1006804980**

Date: 03/12/1997
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 03/19/1998
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 12/21/2004
Action: Other Report / Document

Global Id: T0608501749
Action Type: RESPONSE
Date: 05/25/1989
Action: Other Workplan

Global Id: T0608501749
Action Type: RESPONSE
Date: 05/24/1999
Action: Other Workplan

Global Id: T0608501749
Action Type: RESPONSE
Date: 10/10/1994
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 05/09/1990
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 01/01/1991
Action: Other Report / Document

Global Id: T0608501749
Action Type: RESPONSE
Date: 07/01/1991
Action: Other Report / Document

Global Id: T0608501749
Action Type: RESPONSE
Date: 03/10/2003
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 08/07/2000
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 08/16/1994
Action: Other Report / Document

CHEVRON STATION NO 96377 (Continued) **1006804980**

Global Id: T0608501749
Action Type: RESPONSE
Date: 02/19/1992
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 03/23/1988
Action: Soil and Water Investigation Report

Global Id: T0608501749
Action Type: RESPONSE
Date: 02/09/1994
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 10/05/1998
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 11/22/1991
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 07/06/1998
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 05/09/1988
Action: Other Report / Document

Global Id: T0608501749
Action Type: RESPONSE
Date: 01/19/1999
Action: Soil and Water Investigation Report

Global Id: T0608501749
Action Type: RESPONSE
Date: 05/11/1988
Action: Tank Removal Report / UST Sampling Report

Global Id: T0608501749
Action Type: RESPONSE
Date: 05/11/1988
Action: Tank Removal Report / UST Sampling Report

Global Id: T0608501749
Action Type: REMEDIATION
Date: 07/24/2001
Action: Pump & Treat (P&T) Groundwater

Global Id: T0608501749
Action Type: RESPONSE

CHEVRON STATION NO 96377 (Continued) **1006804980**

Date: 11/18/1992
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 06/15/1993
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 08/09/1993
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 08/28/1993
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 07/19/1999
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 01/28/2000
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 04/28/2000
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 03/14/2002
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 04/30/2002
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 05/11/1988
Action: Other Report / Document

Global Id: T0608501749
Action Type: RESPONSE
Date: 09/26/1991
Action: Other Report / Document

Global Id: T0608501749
Action Type: RESPONSE
Date: 12/26/1991
Action: Other Report / Document

CHEVRON STATION NO 96377 (Continued) **1006804980**

Global Id: T0608501749
Action Type: RESPONSE
Date: 04/15/1992
Action: Other Report / Document

Global Id: T0608501749
Action Type: RESPONSE
Date: 10/25/1993
Action: Other Report / Document

Global Id: T0608501749
Action Type: RESPONSE
Date: 10/15/2001
Action: Other Report / Document

Global Id: T0608501749
Action Type: RESPONSE
Date: 06/17/1996
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 10/10/1997
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 11/17/1997
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 02/11/1991
Action: Other Report / Document

Global Id: T0608501749
Action Type: RESPONSE
Date: 11/30/1998
Action: Soil and Water Investigation Report

Global Id: T0608501749
Action Type: RESPONSE
Date: 09/03/1991
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 09/10/2003
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 12/11/2003
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE

CHEVRON STATION NO 96377 (Continued) **1006804980**

Date: 03/02/2004
Action: Monitoring Report - Quarterly

Global Id: T0608501749
Action Type: RESPONSE
Date: 05/11/1988
Action: Other Report / Document

Global Id: T0608501749
Action Type: RESPONSE
Date: 05/04/1988
Action: Other Report / Document

Global Id: T0608501749
Action Type: RESPONSE
Date: 06/12/2003
Action: Other Report / Document

Global Id: T0608501749
Action Type: ENFORCEMENT
Date: 05/18/2005
Action: Closure/No Further Action Letter

Global Id: T0608501749
Action Type: ENFORCEMENT
Date: 06/17/1996
Action: Staff Letter - #30618

Global Id: T0608501749
Action Type: ENFORCEMENT
Date: 03/12/1997
Action: Staff Letter - #30445

LUST:
Global Id: T0608501749
Status: Completed - Case Closed
Status Date: 05/18/2005

Global Id: T0608501749
Status: Open - Case Begin Date
Status Date: 04/06/1988

Global Id: T0608501749
Status: Open - Site Assessment
Status Date: 04/06/1988

Global Id: T0608501749
Status: Open - Site Assessment
Status Date: 04/16/1988

FINDS:

Registry ID: 110013311139

Environmental Interest/Information System

CHEVRON STATION NO 96377 (Continued) **1006804980**

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
- Envid: 1006804980
- Registry ID: 110013311139
- DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110013311139

CUPA SANTA CLARA:
- Facility Name: BILL BAILEY CHEVRON #9-6377
- Region: SANTA CLARA
- PE#: 2205
- Program Description: GENERATES 100 KG YR TO <5 TONS/YR
- Latitude: 37.40662
- Longitude: -122.078241
- Record ID: PR0380326
- Facility ID: FA0259564

N101 **CHEVRON STATION# 96377** **CA UST** **U004282434**
SSW **808 SHORELINE BLVD. NORTH** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.145 mi.
767 ft. **Site 14 of 16 in cluster N**

Relative: **Higher**
Actual: **43 ft.**

UST:
- Facility ID: 725
- Permitting Agency: Santa Clara County Environmental Health
- Latitude: 37.40689
- Longitude: -122.0786

N102 **SHORELINE SHELL #59** **CA CERS HAZ WASTE** **S121775757**
SSW **807 N SHORELINE BLVD** **CA CERS TANKS** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043** **CA CERS**
0.146 mi.
772 ft. **Site 15 of 16 in cluster N**

Relative: **Higher**
Actual: **43 ft.**

CERS HAZ WASTE:
- Site ID: 402102
- CERS ID: 10405528
- CERS Description: Hazardous Waste Generator

SHORELINE SHELL #59 (Continued) **S121775757**

Violations:

Site ID:	402102
Site Name:	Shoreline Shell #59
Violation Date:	07-13-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 08/24/2016. Add "Spot Free Rinse" tanks.
Violation Division:	Mountain View Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	402102
Site Name:	Shoreline Shell #59
Violation Date:	07-10-2017
Citation:	23 CCR 16 2631(g), 2632(c)(2)(A) & (B) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2631(g), 2632(c)(2)(A) & (B)
Violation Description:	Failure of the double-walled interstitial space of the tank to be continuously monitored with an audible and visual alarm.
Violation Notes:	Returned to compliance on 02/14/2018. Leak sensor in 87 Slave fill sump failed to alarm when submerged in water. Replace sensor.
Violation Division:	Mountain View Fire Department
Violation Program:	UST
Violation Source:	CERS

Site ID:	402102
Site Name:	Shoreline Shell #59
Violation Date:	07-10-2017
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:	Returned to compliance on 02/14/2018. Update hazardous materials inventory to include increase in car washing chemicals. Hazardous waste containers are full and need to be picked up.
Violation Division:	Mountain View Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	402102
Site Name:	Shoreline Shell #59
Violation Date:	12-18-2015
Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Hazardous waste satellite containers of waste fuel absorbants store onsite more than 1 year. If policy is to store wastes longer than one year, please provide copy of most recent shipping paper/disposal receipt for waste fuel absorbants.
Violation Division:	Santa Clara County Environmental Health

SHORELINE SHELL #59 (Continued) **S121775757**

Violation Program: HW
Violation Source: CERS

Site ID: 402102
Site Name: Shoreline Shell #59
Violation Date: 07-13-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to 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 08/24/2016. Add "Spot Free Rinse" Tanks
Violation Division: Mountain View Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 402102
Site Name: Shoreline Shell #59
Violation Date: 07-10-2017
Citation: HSC 6.7 29291(b) - California Health and Safety Code, Chapter 6.7, Section(s) 29291(b)
Violation Description: Failure of the UST system to be designed and constructed with a monitoring system capable of detecting the entry of the hazardous substance into the secondary containment.
Violation Notes: Returned to compliance on 02/14/2018. All dispenser piping except for Diesel dispenser are not completely contained by UDC. The UDC conversion kits have been removed from UDCs. Obtain a permit from FEPD to put in conversion kits.
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 402102
Site Name: Shoreline Shell #59
Violation Date: 12-18-2015
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: 3 x 5 gallon buckets of waste fuel absorbants were not properly labeled in trash area. 1 x 55 gallon drum of waste fuel absorbants were not properly labeled in trash area.
Violation Division: Santa Clara County Environmental Health
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 02-14-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

SHORELINE SHELL #59 (Continued) **S121775757**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-10-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-13-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No Violations
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-13-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-15-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-15-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-24-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: All Violations Corrected
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-18-2013
Violations Found: No

SHORELINE SHELL #59 (Continued) **S121775757**

Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-03-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-09-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Onsite to perform complaint inspection; observed 1 x 55 gallon metal drum labeled hazardous waste - contents "sump water" which is used for SB989 UST testing, label is legible but fading, start date 7/14/15. No hazardous waste violation was noted. This complaint information was forwarded to MVFD representatives Cris Steck and Cc Patrick Mauri. Closed.
Eval Division:	Santa Clara County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-14-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-09-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No Violations
Eval Division:	Mountain View Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-10-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown

SHORELINE SHELL #59 (Continued) **S121775757**

Eval Date: 08-01-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-19-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-01-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-18-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Facility handles small spills of fuel from gas station operations; 3-4 5 gallon buckets of waste, and 1 55 gallon drum.
Eval Division: Santa Clara County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-19-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-01-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-09-2018
Violations Found: No

SHORELINE SHELL #59 (Continued) **S121775757**

Eval Type: Routine done by local agency
Eval Notes: No Violations
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-18-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 402102
Facility Name: Shoreline Shell #59
Env Int Type Code: HMBP
Program ID: 10405528
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 37.406480
Longitude: -122.077660

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Santa Clara County Environmental Health
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: San Jose
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95112-2716
Affiliation Phone: (408) 918-3400

Affiliation Type Desc: UST Tank Operator
Entity Name: AU Energy, LLC
Entity Title: Not reported
Affiliation Address: 41805 Albrae Street
Affiliation City: Fremont
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94538
Affiliation Phone: (510) 657-9150

Affiliation Type Desc: Identification Signer
Entity Name: Sunny Goyal
Entity Title: Project 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

SHORELINE SHELL #59 (Continued) **S121775757**

Affiliation Type Desc:	Operator
Entity Name:	AU Energy, 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:	(510) 657-9150

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Sunny Goyal
Entity Title:	Project Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 657-9150

Affiliation Type Desc:	UST Tank Owner
Entity Name:	AU Energy, LLC
Entity Title:	Not reported
Affiliation Address:	41805 Albrae Street
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94538
Affiliation Phone:	(510) 657-9150

Affiliation Type Desc:	Legal Owner
Entity Name:	AU Energy, LLC
Entity Title:	Not reported
Affiliation Address:	41805 Albrae Street
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94538
Affiliation Phone:	(510) 657-9150

Affiliation Type Desc:	Document Preparer
Entity Name:	Stantec Consulting Services 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:	Environmental Contact
Entity Name:	Sunny Goyal
Entity Title:	Not reported
Affiliation Address:	41805 Albrae Street
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	Not reported

SHORELINE SHELL #59 (Continued) **S121775757**

Affiliation Zip: 94538
Affiliation Phone: (510) 657-9150

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 41805 Albrae Street
Affiliation City: Fremont
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94538
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: AU Energy LLC
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner
Entity Name: AU Energy, LLC
Entity Title: Not reported
Affiliation Address: 41805 Albrae Street
Affiliation City: Fremont
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94538
Affiliation Phone: (510) 657-9150

Affiliation Type Desc: UST Property Owner Name
Entity Name: AU Energy, LLC
Entity Title: Not reported
Affiliation Address: 41805 Albrae Street
Affiliation City: Fremont
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94538
Affiliation Phone: (510) 657-9150

CERS TANKS:
Site ID: 402102
CERS ID: 10405528
CERS Description: Underground Storage Tank

Violations:
Site ID: 402102
Site Name: Shoreline Shell #59
Violation Date: 07-13-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.

SHORELINE SHELL #59 (Continued) **S121775757**

Violation Notes: Returned to compliance on 08/24/2016. Add "Spot Free Rinse" tanks.
Violation Division: Mountain View Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 402102
Site Name: Shoreline Shell #59
Violation Date: 07-10-2017
Citation: 23 CCR 16 2631(g), 2632(c)(2)(A) & (B) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2631(g), 2632(c)(2)(A) & (B)
Violation Description: Failure of the double-walled interstitial space of the tank to be continuously monitored with an audible and visual alarm.
Violation Notes: Returned to compliance on 02/14/2018. Leak sensor in 87 Slave fill sump failed to alarm when submerged in water. Replace sensor.
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 402102
Site Name: Shoreline Shell #59
Violation Date: 07-10-2017
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: Returned to compliance on 02/14/2018. Update hazardous materials inventory to include increase in car washing chemicals. Hazardous waste containers are full and need to be picked up.
Violation Division: Mountain View Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 402102
Site Name: Shoreline Shell #59
Violation Date: 12-18-2015
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Hazardous waste satellite containers of waste fuel absorbants store onsite more than 1 year. If policy is to store wastes longer than one year, please provide copy of most recent shipping paper/disposal receipt for waste fuel absorbants.
Violation Division: Santa Clara County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 402102
Site Name: Shoreline Shell #59
Violation Date: 07-13-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)

SHORELINE SHELL #59 (Continued) **S121775757**

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 08/24/2016. Add "Spot Free Rinse" Tanks
Violation Division: Mountain View Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 402102
Site Name: Shoreline Shell #59
Violation Date: 07-10-2017
Citation: HSC 6.7 29291(b) - California Health and Safety Code, Chapter 6.7, Section(s) 29291(b)
Violation Description: Failure of the UST system to be designed and constructed with a monitoring system capable of detecting the entry of the hazardous substance into the secondary containment.
Violation Notes: Returned to compliance on 02/14/2018. All dispenser piping except for Diesel dispenser are not completely contained by UDC. The UDC conversion kits have been removed from UDCs. Obtain a permit from FEPD to put in conversion kits.
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 402102
Site Name: Shoreline Shell #59
Violation Date: 12-18-2015
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: 3 x 5 gallon buckets of waste fuel absorbants were not properly labeled in trash area. 1 x 55 gallon drum of waste fuel absorbants were not properly labeled in trash area.
Violation Division: Santa Clara County Environmental Health
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 02-14-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-10-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP

SHORELINE SHELL #59 (Continued) **S121775757**

Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-13-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No Violations
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-13-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-15-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-15-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-24-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: All Violations Corrected
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-18-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown

SHORELINE SHELL #59 (Continued) **S121775757**

Eval Date:	08-03-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-09-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Onsite to perform complaint inspection; observed 1 x 55 gallon metal drum labeled hazardous waste - contents "sump water" which is used for SB989 UST testing, label is legible but fading, start date 7/14/15. No hazardous waste violation was noted. This complaint information was forwarded to MVFD representatives Cris Steck and Cc Patrick Mauri. Closed.
Eval Division:	Santa Clara County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-14-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-09-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No Violations
Eval Division:	Mountain View Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-10-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-01-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

SHORELINE SHELL #59 (Continued) **S121775757**

Eval General Type:	Other/Unknown
Eval Date:	10-19-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	12-01-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-18-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Facility handles small spills of fuel from gas station operations; 3-4 5 gallon buckets of waste, and 1 55 gallon drum.
Eval Division:	Santa Clara County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	10-19-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	12-01-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-09-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No Violations
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-18-2013

SHORELINE SHELL #59 (Continued) **S121775757**

Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 402102
Facility Name: Shoreline Shell #59
Env Int Type Code: HMBP
Program ID: 10405528
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 37.406480
Longitude: -122.077660

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Santa Clara County Environmental Health
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: San Jose
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95112-2716
Affiliation Phone: (408) 918-3400

Affiliation Type Desc: UST Tank Operator
Entity Name: AU Energy, LLC
Entity Title: Not reported
Affiliation Address: 41805 Albrae Street
Affiliation City: Fremont
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94538
Affiliation Phone: (510) 657-9150

Affiliation Type Desc: Identification Signer
Entity Name: Sunny Goyal
Entity Title: Project Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: AU Energy, 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

SHORELINE SHELL #59 (Continued) **S121775757**

Affiliation Phone:	(510) 657-9150
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Sunny Goyal
Entity Title:	Project Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 657-9150
Affiliation Type Desc:	UST Tank Owner
Entity Name:	AU Energy, LLC
Entity Title:	Not reported
Affiliation Address:	41805 Albrae Street
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94538
Affiliation Phone:	(510) 657-9150
Affiliation Type Desc:	Legal Owner
Entity Name:	AU Energy, LLC
Entity Title:	Not reported
Affiliation Address:	41805 Albrae Street
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94538
Affiliation Phone:	(510) 657-9150
Affiliation Type Desc:	Document Preparer
Entity Name:	Stantec Consulting Services 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:	Environmental Contact
Entity Name:	Sunny Goyal
Entity Title:	Not reported
Affiliation Address:	41805 Albrae Street
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94538
Affiliation Phone:	(510) 657-9150
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	41805 Albrae Street
Affiliation City:	Fremont

SHORELINE SHELL #59 (Continued) **S121775757**

Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94538
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: AU Energy LLC
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner
Entity Name: AU Energy, LLC
Entity Title: Not reported
Affiliation Address: 41805 Albrae Street
Affiliation City: Fremont
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94538
Affiliation Phone: (510) 657-9150

Affiliation Type Desc: UST Property Owner Name
Entity Name: AU Energy, LLC
Entity Title: Not reported
Affiliation Address: 41805 Albrae Street
Affiliation City: Fremont
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94538
Affiliation Phone: (510) 657-9150

CERS TANKS:
Site ID: 402102
CERS ID: 10405528
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 402102
Site Name: Shoreline Shell #59
Violation Date: 07-13-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 08/24/2016. Add "Spot Free Rinse" tanks.
Violation Division: Mountain View Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 402102
Site Name: Shoreline Shell #59
Violation Date: 07-10-2017

SHORELINE SHELL #59 (Continued) **S121775757**

Citation:	23 CCR 16 2631(g), 2632(c)(2)(A) & (B) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2631(g), 2632(c)(2)(A) & (B)
Violation Description:	Failure of the double-walled interstitial space of the tank to be continuously monitored with an audible and visual alarm.
Violation Notes:	Returned to compliance on 02/14/2018. Leak sensor in 87 Slave fill sump failed to alarm when submerged in water. Replace sensor.
Violation Division:	Mountain View Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	402102
Site Name:	Shoreline Shell #59
Violation Date:	07-10-2017
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:	Returned to compliance on 02/14/2018. Update hazardous materials inventory to include increase in car washing chemicals. Hazardous waste containers are full and need to be picked up.
Violation Division:	Mountain View Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	402102
Site Name:	Shoreline Shell #59
Violation Date:	12-18-2015
Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Hazardous waste satellite containers of waste fuel absorbants store onsite more than 1 year. If policy is to store wastes longer than one year, please provide copy of most recent shipping paper/disposal receipt for waste fuel absorbants.
Violation Division:	Santa Clara County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	402102
Site Name:	Shoreline Shell #59
Violation Date:	07-13-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to 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 08/24/2016. Add "Spot Free Rinse" Tanks
Violation Division:	Mountain View Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

SHORELINE SHELL #59 (Continued) **S121775757**

Site ID: 402102
Site Name: Shoreline Shell #59
Violation Date: 07-10-2017
Citation: HSC 6.7 29291(b) - California Health and Safety Code, Chapter 6.7, Section(s) 29291(b)
Violation Description: Failure of the UST system to be designed and constructed with a monitoring system capable of detecting the entry of the hazardous substance into the secondary containment.
Violation Notes: Returned to compliance on 02/14/2018. All dispenser piping except for Diesel dispenser are not completely contained by UDC. The UDC conversion kits have been removed from UDCs. Obtain a permit from FEPD to put in conversion kits.
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 402102
Site Name: Shoreline Shell #59
Violation Date: 12-18-2015
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: 3 x 5 gallon buckets of waste fuel absorbants were not properly labeled in trash area. 1 x 55 gallon drum of waste fuel absorbants were not properly labeled in trash area.
Violation Division: Santa Clara County Environmental Health
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 02-14-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-10-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-13-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No Violations
Eval Division: Mountain View Fire Department

SHORELINE SHELL #59 (Continued) **S121775757**

Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-13-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-15-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-15-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-24-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: All Violations Corrected
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-18-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-03-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

SHORELINE SHELL #59 (Continued) **S121775757**

Eval General Type:	Other/Unknown
Eval Date:	09-09-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Onsite to perform complaint inspection; observed 1 x 55 gallon metal drum labeled hazardous waste - contents "sump water" which is used for SB989 UST testing, label is legible but fading, start date 7/14/15. No hazardous waste violation was noted. This complaint information was forwarded to MVFD representatives Cris Steck and Cc Patrick Mauri. Closed.
Eval Division:	Santa Clara County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-14-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-09-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No Violations
Eval Division:	Mountain View Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-10-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-01-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-19-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP

SHORELINE SHELL #59 (Continued) **S121775757**

Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-01-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-18-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Facility handles small spills of fuel from gas station operations; 3-4 5 gallon buckets of waste, and 1 55 gallon drum.
Eval Division: Santa Clara County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-19-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-01-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-09-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No Violations
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-18-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

SHORELINE SHELL #59 (Continued) **S121775757**

Coordinates:

Site ID:	402102
Facility Name:	Shoreline Shell #59
Env Int Type Code:	HMBP
Program ID:	10405528
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	37.406480
Longitude:	-122.077660

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Santa Clara County Environmental Health
Entity Title:	Not reported
Affiliation Address:	1555 Berger Drive, Suite 300
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95112-2716
Affiliation Phone:	(408) 918-3400

Affiliation Type Desc:	UST Tank Operator
Entity Name:	AU Energy, LLC
Entity Title:	Not reported
Affiliation Address:	41805 Albrae Street
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94538
Affiliation Phone:	(510) 657-9150

Affiliation Type Desc:	Identification Signer
Entity Name:	Sunny Goyal
Entity Title:	Project Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	AU Energy, 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:	(510) 657-9150

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Sunny Goyal
Entity Title:	Project Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported

SHORELINE SHELL #59 (Continued) **S121775757**

Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 657-9150
Affiliation Type Desc:	UST Tank Owner
Entity Name:	AU Energy, LLC
Entity Title:	Not reported
Affiliation Address:	41805 Albrae Street
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94538
Affiliation Phone:	(510) 657-9150
Affiliation Type Desc:	Legal Owner
Entity Name:	AU Energy, LLC
Entity Title:	Not reported
Affiliation Address:	41805 Albrae Street
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94538
Affiliation Phone:	(510) 657-9150
Affiliation Type Desc:	Document Preparer
Entity Name:	Stantec Consulting Services 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:	Environmental Contact
Entity Name:	Sunny Goyal
Entity Title:	Not reported
Affiliation Address:	41805 Albrae Street
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94538
Affiliation Phone:	(510) 657-9150
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	41805 Albrae Street
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94538
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	AU Energy LLC

SHORELINE SHELL #59 (Continued) **S121775757**

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:	AU Energy, LLC
Entity Title:	Not reported
Affiliation Address:	41805 Albrae Street
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94538
Affiliation Phone:	(510) 657-9150
Affiliation Type Desc:	UST Property Owner Name
Entity Name:	AU Energy, LLC
Entity Title:	Not reported
Affiliation Address:	41805 Albrae Street
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94538
Affiliation Phone:	(510) 657-9150

O103 **TAKARA BIO USA, INC** **CA CERS HAZ WASTE** **S121738214**
WNW **1290 TERRA BELLA AVE** **CA CERS** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.161 mi.
848 ft. **Site 1 of 21 in cluster O**

Relative: **Lower**
Actual: **35 ft.**

CERS HAZ WASTE:

Site ID:	106873
CERS ID:	10078093
CERS Description:	Hazardous Waste Generator

Violations:

Site ID:	106873
Site Name:	Takara Bio USA, Inc
Violation Date:	11-15-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to 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 04/11/2018. Update waste, compressed gasses, add batteries, and full inventory.
Violation Division:	Mountain View Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-02-2015

TAKARA BIO USA, INC (Continued) **S121738214**

Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-10-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-11-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-15-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-18-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 106873
Facility Name: Takara Bio USA, Inc
Env Int Type Code: HWG
Program ID: 10078093
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 37.411109
Longitude: -122.080566

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Santa Clara County Environmental Health

TAKARA BIO USA, INC (Continued) **S121738214**

Entity Title:	Not reported
Affiliation Address:	1555 Berger Drive, Suite 300
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95112-2716
Affiliation Phone:	(408) 918-3400
Affiliation Type Desc:	Operator
Entity Name:	Takara Bio USA, 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:	(650) 919-7300
Affiliation Type Desc:	Document Preparer
Entity Name:	Clifton Smith
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	Clontech Laboratories, 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:	Environmental Contact
Entity Name:	Loretta Momme
Entity Title:	Not reported
Affiliation Address:	1290 Terra Bella Ave.
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	(650) 919-7436
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1290 Terra Bella Ave.
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	Not reported

TAKARA BIO USA, INC (Continued) **S121738214**

Affiliation Type Desc:	Identification Signer
Entity Name:	Loretta Momme
Entity Title:	Vice President of Operations
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:	Takara Bio USA Holdings, Inc.
Entity Title:	Not reported
Affiliation Address:	1290 Terra Bella Ave.
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94043
Affiliation Phone:	(650) 919-7300

Affiliation Type Desc:	Property Owner
Entity Name:	KR Terra Bella,LLC.
Entity Title:	Not reported
Affiliation Address:	12200 West Olympic Blvd, Suite 200
Affiliation City:	Los Angeles
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90064
Affiliation Phone:	(650) 289-5320

CERS TANKS:

Site ID:	106873
CERS ID:	10078093
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	106873
Site Name:	Takara Bio USA, Inc
Violation Date:	11-15-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to 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 04/11/2018. Update waste, compressed gasses, add batteries, and full inventory.
Violation Division:	Mountain View Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-02-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported

TAKARA BIO USA, INC (Continued) **S121738214**

Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-10-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-11-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-15-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-18-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 106873
Facility Name: Takara Bio USA, Inc
Env Int Type Code: HWG
Program ID: 10078093
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 37.411109
Longitude: -122.080566

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Santa Clara County Environmental Health
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: San Jose

TAKARA BIO USA, INC (Continued) **S121738214**

Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95112-2716
Affiliation Phone:	(408) 918-3400
Affiliation Type Desc:	Operator
Entity Name:	Takara Bio USA, 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:	(650) 919-7300
Affiliation Type Desc:	Document Preparer
Entity Name:	Clifton Smith
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	Clontech Laboratories, 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:	Environmental Contact
Entity Name:	Loretta Momme
Entity Title:	Not reported
Affiliation Address:	1290 Terra Bella Ave.
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	(650) 919-7436
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1290 Terra Bella Ave.
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Loretta Momme

TAKARA BIO USA, INC (Continued) **S121738214**

Entity Title:	Vice President of Operations
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:	Takara Bio USA Holdings, Inc.
Entity Title:	Not reported
Affiliation Address:	1290 Terra Bella Ave.
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94043
Affiliation Phone:	(650) 919-7300
Affiliation Type Desc:	Property Owner
Entity Name:	KR Terra Bella,LLC.
Entity Title:	Not reported
Affiliation Address:	12200 West Olympic Blvd, Suite 200
Affiliation City:	Los Angeles
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90064
Affiliation Phone:	(650) 289-5320

O104 **TAKARA BIO USA, INC.** **RCRA-SQG** **1012176398**
WNW **1290 TERRA BELLA AVE** **CA HAZNET** **CAR000203356**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.161 mi.
848 ft. **Site 2 of 21 in cluster O**

Relative: **Lower**
Actual: **35 ft.**

RCRA-SQG:

Date form received by agency:	08/19/2016
Facility name:	TAKARA BIO USA, INC.
Facility address:	1290 TERRA BELLA AVE MOUNTAIN VIEW, CA 94043
EPA ID:	CAR000203356
Contact:	LORETTA MOMME
Contact address:	1290 TERRA BELLA AVE MOUNTAIN VIEW, CA 94043
Contact country:	US
Contact telephone:	650-919-7436
Contact email:	LORETTA_MOMME@CLONTECH.COM
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	KR TERRA BELLA, LLC

TAKARA BIO USA, INC. (Continued) **1012176398**

Owner/operator address: 12200 WEST OLMPIC BLVD STE 200
LOS ANGELES, CA 90064
Owner/operator country: US
Owner/operator telephone: 650-289-5320
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 06/08/2016
Owner/Op end date: Not reported

Owner/operator name: TAKARA BIO USA, INC
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 09/01/2005
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 211
. Waste name: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 541
. Waste name: Photochemicals / photo processing waste

TAKARA BIO USA, INC. (Continued) **1012176398**

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D028
. Waste name: 1,2-DICHLOROETHANE

. Waste code: D038
. Waste name: PYRIDINE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS

TAKARA BIO USA, INC. (Continued) **1012176398**

CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: P105
. Waste name: SODIUM AZIDE

Historical Generators:
Date form received by agency: 06/27/2011
Site name: CLONTECH LABORATORIES
Classification: Small Quantity Generator

. Waste code: 211
. Waste name: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 541
. Waste name: Photochemicals / photo processing waste

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D011
. Waste name: SILVER

. Waste code: D038
. Waste name: PYRIDINE

TAKARA BIO USA, INC. (Continued) **1012176398**

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 10/16/2009
Site name: CLONTECH LABORATORIES INC
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D011
. Waste name: SILVER

TAKARA BIO USA, INC. (Continued) **1012176398**

. Waste code: D018
. Waste name: BENZENE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D038
. Waste name: PYRIDINE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

HAZNET:

Facility Name:	TAKARA BIO USA, INC.
envid:	1012176398
Year:	2017
GEPAID:	CAR000203356
Contact:	LORETTA MOMME
Telephone:	6509197436
Mailing Name:	Not reported
Mailing Address:	1290 TERRA BELLA AVE
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 940431837
Gen County:	Santa Clara
TSD EPA ID:	CAL000100189
TSD County:	Sacramento
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Metals Recovery Including Retoring,Smelting,Chemicals,Ect

TAKARA BIO USA, INC. (Continued) **1012176398**

Tons: 0.0417
Cat Decode: Photochemicals/photoprocessing waste
Method Decode: Metals Recovery Including Retoring,Smelting,Chemicals,Ect
Facility County: Santa Clara

envid: 1012176398
Year: 2017
GEPAID: CAR000203356
Contact: LORETTA MOMME
Telephone: 6509197436
Mailing Name: Not reported
Mailing Address: 1290 TERRA BELLA AVE
Mailing City,St,Zip: MOUNTAIN VIEW, CA 940431837
Gen County: Santa Clara
TSD EPA ID: CAL000100189
TSD County: Sacramento
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Metals Recovery Including Retoring,Smelting,Chemicals,Ect
Tons: 0.0417
Cat Decode: Photochemicals/photoprocessing waste
Method Decode: Metals Recovery Including Retoring,Smelting,Chemicals,Ect
Facility County: Santa Clara

envid: 1012176398
Year: 2017
GEPAID: CAR000203356
Contact: LORETTA MOMME
Telephone: 6509197436
Mailing Name: Not reported
Mailing Address: 1290 TERRA BELLA AVE
Mailing City,St,Zip: MOUNTAIN VIEW, CA 940431837
Gen County: Santa Clara
TSD EPA ID: CAD059494310
TSD County: Santa Clara
Waste Category: Other organic solids
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.401
Cat Decode: Other organic solids
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Santa Clara

envid: 1012176398
Year: 2017
GEPAID: CAR000203356
Contact: LORETTA MOMME
Telephone: 6509197436
Mailing Name: Not reported
Mailing Address: 1290 TERRA BELLA AVE
Mailing City,St,Zip: MOUNTAIN VIEW, CA 940431837
Gen County: Santa Clara
TSD EPA ID: CAD059494310
TSD County: Santa Clara
Waste Category: Other organic solids
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

TAKARA BIO USA, INC. (Continued) **1012176398**

Tons:	0.401
Cat Decode:	Other organic solids
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Santa Clara
envid:	1012176398
Year:	2017
GEPAID:	CAR000203356
Contact:	LORETTA MOMME
Telephone:	6509197436
Mailing Name:	Not reported
Mailing Address:	1290 TERRA BELLA AVE
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 940431837
Gen County:	Santa Clara
TSD EPA ID:	ARD981057870
TSD County:	99
Waste Category:	Other organic solids
Disposal Method:	Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.25
Cat Decode:	Not reported
Method Decode:	Fuel Blending Prior To Energy Recovery At Another Site
Facility County:	Santa Clara

Click this hyperlink while viewing on your computer to access
59 additional CA_HAZNET: record(s) in the EDR Site Report.

O105 **TELEDYNE MICROWAVE** **CA HIST UST** **U001594420**
WNW **1290 TERRA BELLA AVE** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.161 mi.
848 ft. **Site 3 of 21 in cluster O**

Relative: HIST UST:
Lower

Actual:
35 ft.

File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000045616
Facility Type:	Other
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	4159682211
Owner Name:	TELEDYNE MICROWAVE
Owner Address:	1290 TERRA BELLA AVENUE
Owner City,St,Zip:	MOUNTAIN VIEW, CA 94043
Total Tanks:	0002
Tank Num:	001
Container Num:	B
Year Installed:	1966
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	6
Leak Detection:	Groundwater Monitoring Well
Tank Num:	002
Container Num:	C

TELEDYNE MICROWAVE (Continued) **U001594420**

Year Installed:	1966
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	6
Leak Detection:	Groundwater Monitoring Well

O106 **BD BIOSCIENCE-CLONTECH** **CA CUPA Listings** **S121471514**
WNW **1290 TERRA BELLA AV** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94040**
0.161 mi.
848 ft. **Site 4 of 21 in cluster O**

Relative: CUPA SANTA CLARA:
Lower

Facility Name:	BD BIOSCIENCE-CLONTECH
Region:	SANTA CLARA
PE#:	2206
Program Description:	GENERATES 5 TO <25 TONS/YR
Latitude:	37.40949
Longitude:	-122.079833
Record ID:	PR0350102
Facility ID:	FA0240580

Actual:
35 ft.

O107 **TELEDYNE ELECTRONIC TECHNOLOGIES** **RCRA-CESQG** **1007199032**
WNW **1290 TERRA BELLA AVENUE** **CAD095992517**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.161 mi.
848 ft. **Site 5 of 21 in cluster O**

Relative: RCRA-CESQG:
Lower

Date form received by agency:	03/25/1994
Facility name:	TELEDYNE ELECTRONIC TECHNOLOGIES
Facility address:	1290 TERRA BELLA AVENUE MOUNTAIN VIEW, CA 94043-0000
EPA ID:	CAD095992517
Mailing address:	P.O. BOX 7127 MOUNTAIN VIEW, CA 94039-7127
Contact:	WILLIAM E MORELAND
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	415-962-6572
Contact email:	Not reported
EPA Region:	09
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of

Actual:
35 ft.

TELEDYNE ELECTRONIC TECHNOLOGIES (Continued) **1007199032**

any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	02/28/1992
Site name:	TELEDYNE MICROWAVE INC
Classification:	Large Quantity Generator
Date form received by agency:	05/16/1990
Site name:	TELEDYNE MICROWAVE
Classification:	Conditionally Exempt Small Quantity Generator
Violation Status:	No violations found

O108 **TELEDYNE MICROWAVE** **CA HIST UST** **S112909304**
WNW **1290 TERRA** **CA HAZNET** **N/A**
1/8-1/4 **BELLA AVENUE, CA 94043**
0.161 mi.
848 ft. **Site 6 of 21 in cluster O**

Relative: **Lower**
Actual: **35 ft.**

HIST UST:

File Number:	00020970
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00020970.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

TELEDYNE MICROWAVE (Continued) **S112909304**

Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

HAZNET:

Facility Name:	ALLEGHENY TELEDYNE INC
envid:	S112909304
Year:	2000
GEPAID:	CAC002283585
Contact:	WILLIAM D SUITES
Telephone:	3015514386
Mailing Name:	Not reported
Mailing Address:	2049 CENTURY PK EAST
Mailing City,St,Zip:	LOS ANGELES, CA 900673101
Gen County:	Not reported
TSD EPA ID:	CAD028409019
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Transfer Station
Tons:	2.52
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

envid:	S112909304
Year:	2000
GEPAID:	CAC002283585
Contact:	WILLIAM D SUITES
Telephone:	3015514386
Mailing Name:	Not reported
Mailing Address:	2049 CENTURY PK EAST
Mailing City,St,Zip:	LOS ANGELES, CA 900673101
Gen County:	Not reported
TSD EPA ID:	CAD981382732
TSD County:	Not reported
Waste Category:	Asbestos containing waste
Disposal Method:	Disposal, Land Fill
Tons:	2.52
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

envid:	S112909304
Year:	2000
GEPAID:	CAC002283585
Contact:	WILLIAM D SUITES
Telephone:	3015514386
Mailing Name:	Not reported
Mailing Address:	2049 CENTURY PK EAST
Mailing City,St,Zip:	LOS ANGELES, CA 900673101
Gen County:	Not reported
TSD EPA ID:	CAD044429835
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Disposal, Other
Tons:	0.2

TELEDYNE MICROWAVE (Continued) **S112909304**

Cat Decode: Not reported
Method Decode: Not reported
Facility County: Santa Clara

O109 **CLONTECH LABORATORIES** **RCRA-LQG** **1012175746**
WNW **1290 TERRA BELLA AVE** **FINDS** **CAL000299446**
1/8-1/4 **MOUNTAIN VIEW, CA 94043** **ECHO**
0.161 mi.
848 ft. **Site 7 of 21 in cluster O**

Relative:
Lower

Actual:
35 ft.

RCRA-LQG:
Date form received by agency: 01/22/2008
Facility name: CLONTECH LABORATORIES, INC
Facility address: 1290 TERRA BELLA AVE
MOUNTAIN VIEW, CA 94043
EPA ID: CAL000299446
Contact: MARK S ROBERTSON
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: 650-919-7300
Telephone ext.: 7504
Contact email: MARK_ROBERTSON@CLONTECH.COM
EPA Region: 09
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: CLONTECH LABORATORIES, INC
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 09/01/2005
Owner/Op end date: Not reported

Owner/operator name: EMBARCADERO CAPITAL PARTNERS
Owner/operator address: 1290 TERRA BELLA AVE
MOUNTAIN VIEW, CA 94043
Owner/operator country: US
Owner/operator telephone: Not reported

CLONTECH LABORATORIES (Continued) **1012175746**

Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 10/01/2007
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D038
. Waste name: PYRIDINE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE,

CLONTECH LABORATORIES (Continued) **1012175746**

ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: P098
. Waste name: POTASSIUM CYANIDE

Violation Status: No violations found

FINDS:

Registry ID: 110038877374

Environmental Interest/Information System
AIR EMISSIONS CLASSIFICATION UNKNOWN

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

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: 1012175746

CLONTECH LABORATORIES (Continued) **1012175746**

Registry ID: 110038877374
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110038877374

O110 **CLONTECH LABORATORIES, INC.** **CA AST** **A100323458**
WNW **1290 TERRA BELLA AVENUE** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA**
0.161 mi.
848 ft. **Site 8 of 21 in cluster O**

Relative: **Lower**
Actual: **35 ft.**

AST:

Certified Unified Program Agencies:	Santa Clara County
Owner:	CLONTECH LABORATORIES INC
Total Gallons:	1,650
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported
Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

O111 **TELEDYNE MICROWAVE** **CA CUPA Listings** **S121468918**
WNW **1290 TERRA BELLA AV** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.161 mi.
848 ft. **Site 9 of 21 in cluster O**

Relative: **Lower**
Actual: **35 ft.**

CUPA SANTA CLARA:

Facility Name:	TAKARA BIO USA, INC.
Region:	SANTA CLARA
PE#:	2205
Program Description:	GENERATES 100 KG YR TO <5 TONS/YR
Latitude:	37.4098647
Longitude:	-122.0808593
Record ID:	PR0391055
Facility ID:	FA0265096
Region:	SANTA CLARA
PE#:	2011

TELEDYNE MICROWAVE (Continued) **S121468918**

Program Description: APSA FACILITY-SPCC TEMPLATE (<10,000 GAL CAP)
Latitude: 37.4098647
Longitude: -122.0808593
Record ID: PR0399577
Facility ID: FA0265096

Region: SANTA CLARA
PE#: 2206
Program Description: GENERATES 5 TO <25 TONS/YR
Latitude: 37.40949
Longitude: -122.079833
Record ID: PR0312822
Facility ID: FA0203464

P112 **GIBSON STUDIO INC** **RCRA-SQG** **1000820096**
ESE **954 SAN RAFAEL AVE** **FINDS** **CAD983661208**
1/8-1/4 **MOUNTAIN VIEW, CA 94043** **ECHO**
0.168 mi. **CA HAZNET**
889 ft. **Site 1 of 6 in cluster P**

Relative:
Higher

Actual:
41 ft.

RCRA-SQG:
Date form received by agency: 03/05/1993
Facility name: GIBSON STUDIO INC
Facility address: 954 SAN RAFAEL AVE
MOUNTAIN VIEW, CA 94043
EPA ID: CAD983661208
Mailing address: SAN RAFAEL AVE
MOUNTAIN VIEW, CA 94043
Contact: JEFFREY IGNATOVICH
Contact address: 954 SAN RAFAEL AVE
MOUNTAIN VIEW, CA 94043
Contact country: US
Contact telephone: 415-961-9534
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: RONALD L GIBSON
Owner/operator address: 954 SAN RAFAEL AVE
MOUNTAIN VIEW, CA 94043
Owner/operator country: Not reported
Owner/operator telephone: 415-961-9534
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

GIBSON STUDIO INC (Continued) **1000820096**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002893968

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: 1000820096
Registry ID: 110002893968
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002893968

HAZNET:
Facility Name: GIBSON STUDIO INC
envid: 1000820096
Year: 1997
GEPAID: CAD983661208
Contact: HERMAN KAULS
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 2111 LATHAM UNIT 203
Mailing City,St,Zip: MOUNTAIN VIEW, CA 940400000
Gen County: Not reported
TSD EPA ID: CAD003963592
TSD County: Not reported
Waste Category: Metal sludge (Alkaline solution (pH >= 12.5) with metals)
Disposal Method: Recycler
Tons: .0030

GIBSON STUDIO INC (Continued) **1000820096**

Cat Decode: Not reported
Method Decode: Not reported
Facility County: Santa Clara

envid: 1000820096
Year: 1997
GEPAID: CAD983661208
Contact: HERMAN KAULS
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 2111 LATHAM UNIT 203
Mailing City,St,Zip: MOUNTAIN VIEW, CA 940400000
Gen County: Not reported
TSD EPA ID: CAD003963592
TSD County: Not reported
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Tons: .1668
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Santa Clara

envid: 1000820096
Year: 1996
GEPAID: CAD983661208
Contact: HERMAN KAULS
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 2111 LATHAM UNIT 203
Mailing City,St,Zip: MOUNTAIN VIEW, CA 940400000
Gen County: Not reported
TSD EPA ID: CAD003963592
TSD County: Not reported
Waste Category: Metal sludge (Alkaline solution (pH >= 12.5) with metals)
Disposal Method: Recycler
Tons: .0044
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Santa Clara

envid: 1000820096
Year: 1996
GEPAID: CAD983661208
Contact: HERMAN KAULS
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 2111 LATHAM UNIT 203
Mailing City,St,Zip: MOUNTAIN VIEW, CA 940400000
Gen County: Not reported
TSD EPA ID: CAD003963592
TSD County: Not reported
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Tons: 3.0228
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Santa Clara

GIBSON STUDIO INC (Continued) **1000820096**

envid:	1000820096
Year:	1995
GEPAID:	CAD983661208
Contact:	HERMAN KAULS
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	2111 LATHAM UNIT 203
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 940400000
Gen County:	Not reported
TSD EPA ID:	CAD003963592
TSD County:	Not reported
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Tons:	.8130
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

Click this hyperlink while viewing on your computer to access
7 additional CA_HAZNET: record(s) in the EDR Site Report.

P113 **GIBSON STUDIO LLC** **CA CUPA Listings** **S121469080**
ESE **954 SAN RAFAEL AV** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.168 mi.
889 ft. **Site 2 of 6 in cluster P**

Relative: **Higher**
Actual: **41 ft.**

CUPA SANTA CLARA:

Facility Name:	GIBSON STUDIO LLC
Region:	SANTA CLARA
PE#:	2205
Program Description:	GENERATES 100 KG YR TO <5 TONS/YR
Latitude:	37.407458
Longitude:	-122.073088
Record ID:	PR0313897
Facility ID:	FA0204350

O114 **SPECTRA-PHYSICS LASERS** **CA CUPA Listings** **S121473925**
WNW **1344 TERRA BELLA AV 6** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.174 mi.
918 ft. **Site 10 of 21 in cluster O**

Relative: **Lower**
Actual: **34 ft.**

CUPA SANTA CLARA:

Facility Name:	SPECTRA-PHYSICS LASERS
Region:	SANTA CLARA
PE#:	2206
Program Description:	GENERATES 5 TO <25 TONS/YR
Latitude:	37.409899
Longitude:	-122.080677
Record ID:	PR0383204
Facility ID:	FA0261317

O115 **SPECTRA PHYSICS LASERS** **CA CUPA Listings** **S121468922**
WNW **1344 TERRA BELLA AV** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.174 mi.
918 ft. **Site 11 of 21 in cluster O**

Relative: CUPA SANTA CLARA:
Lower
Actual: Facility Name: SPECTRA PHYSICS LASERS
34 ft. Region: SANTA CLARA
PE#: 2205
Program Description: GENERATES 100 KG YR TO <5 TONS/YR
Latitude: 37.409899
Longitude: -122.080677
Record ID: PR0313153
Facility ID: FA0203474

O116 **DIGITAL EQUIPMENT CORP** **RCRA NonGen / NLR** **1000264297**
WNW **1400 TERRA BELLA ST** **FINDS** **CAD010935302**
1/8-1/4 **MOUNTAIN VIEW, CA 94043** **ECHO**
0.174 mi.
918 ft. **Site 12 of 21 in cluster O**

Relative: RCRA NonGen / NLR:
Lower Date form received by agency: 11/21/1984
Actual: Facility name: DIGITAL EQUIPMENT CORP
34 ft. Facility address: 1400 TERRA BELLA ST
MOUNTAIN VIEW, CA 94043
EPA ID: CAD010935302
Mailing address: 1901 W FOURTEEN ST
TEMPE, AZ 85281
Contact: ENVIRONMENTAL MANAGER
Contact address: 1400 TERRA BELLA ST
MOUNTAIN VIEW, CA 94043
Contact country: US
Contact telephone: 602-894-5632
Contact email: Not reported
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212

DIGITAL EQUIPMENT CORP (Continued) **1000264297**

Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002638209

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000264297
Registry ID: 110002638209
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002638209

O117 **SPECTRA-PHYSICS INC** **RCRA NonGen / NLR** **1000181202**
WNW **1300 TERRA BELLA AVE** **CAT080012727**
1/8-1/4 **MOUNTAIN VIEW, CA 94042**
0.174 mi.
918 ft. **Site 13 of 21 in cluster O**

Relative:
Lower

Actual:
34 ft.

RCRA NonGen / NLR:

Date form received by agency:	11/13/1980
Facility name:	SPECTRA-PHYSICS INC
Facility address:	1300 TERRA BELLA AVE MOUNTAIN VIEW, CA 94042
EPA ID:	CAT080012727
Mailing address:	1250 WEST MIDDLEFIELD ROAD MOUNTAIN VIEW, CA 94042
Contact:	ENVIRONMENTAL MANAGER
Contact address:	1300 TERRA BELLA AVE MOUNTAIN VIEW, CA 94042
Contact country:	US
Contact telephone:	415-961-2550
Contact email:	Not reported
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	TELEDYNE INDUSTRIES
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No

SPECTRA-PHYSICS INC (Continued) **1000181202**

On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

O118 **SPECTRA PHYSICS INC** **RCRA-SQG** **1000181203**
WNW **1344 TERRA BELLA AVE** **CA CIWQS** **CAT080012735**
1/8-1/4 **MOUNTAIN VIEW, CA 94042**
0.174 mi.
918 ft. **Site 14 of 21 in cluster O**

Relative: **Lower**
Actual: **34 ft.**

RCRA-SQG:

Date form received by agency:	08/26/2005
Facility name:	SPECTRA PHYSICS INC
Facility address:	1344 TERRA BELLA AVE MOUNTAIN VIEW, CA 94042
EPA ID:	CAT080012735
Mailing address:	1335 TERRA BELLA AVE MOUNTAIN VIEW, CA 94042
Contact:	JAMES JENSEN
Contact address:	1335 TERRA BELLA AVE MOUNTAIN VIEW, CA 94042
Contact country:	US
Contact telephone:	520-746-6616
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	ZAPPETTINI INVESTMENTS
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	12/08/1972
Owner/Op end date:	Not reported
Owner/operator name:	SPECTRA PHYSICS LASERS
Owner/operator address:	Not reported Not reported
Owner/operator country:	US

SPECTRA PHYSICS INC (Continued) **1000181203**

Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 07/23/1982
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Universal Waste Summary:
Waste type: Batteries
Accumulated waste on-site: Yes
Generated waste on-site: Yes

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D008
. Waste name: LEAD

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

SPECTRA PHYSICS INC (Continued) **1000181203**

Historical Generators:
Date form received by agency: 09/01/1996
Site name: SPECTRA-PHYSICS INC
Classification: Small Quantity Generator

Date form received by agency: 05/31/1994
Site name: SPECTRA PHYSICS LASERS
Classification: Large Quantity Generator

Date form received by agency: 04/16/1990
Site name: SPECTRA PHYSICS INC
Classification: Large Quantity Generator

Date form received by agency: 11/13/1980
Site name: SPECTRA-PHYSICS INC
Classification: Large Quantity Generator

Violation Status: No violations found

CIWQS:

Agency:	Google Inc
Agency Address:	1600 Amphitheatre Pkwy, Mountain View, CA 94043
Place/Project Type:	Construction - Commercial, Industrial
SIC/NAICS:	Not reported
Region:	2
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	2 43C363264
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	03/20/2012
Termination Date:	03/08/2013
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	37.41081
Longitude:	-122.08325

O119 **IMAGE ARCHITECTS** **CA CUPA Listings** **S121468927**
WNW **1400 TERRA BELLA AV C** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.174 mi.
918 ft. **Site 15 of 21 in cluster O**

Relative:
Lower

Actual:
34 ft.

CUPA SANTA CLARA:

Facility Name:	IMAGE ARCHITECTS
Region:	SANTA CLARA
PE#:	2205
Program Description:	GENERATES 100 KG YR TO <5 TONS/YR
Latitude:	37.410276
Longitude:	-122.081647
Record ID:	PR0315560

IMAGE ARCHITECTS (Continued) **S121468927**

Facility ID: FA0203493

O120 **SEA LANE BIOTECHNOLOGIES** **CA CPS-SLIC** **S101542279**
WNW **1400 TERRA BELLA AVE STE K** **CA CUPA Listings** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043** **CA HAZNET**
0.174 mi. **CA CERS**
918 ft. **Site 16 of 21 in cluster O**

Relative:
Lower

Actual:
34 ft.

CPS-SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	04/20/2011
Global Id:	T0608591662
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	Not reported
Latitude:	37.4098291917186
Longitude:	-122.083511352539
Case Type:	Cleanup Program Site
Case Worker:	UUU
Local Agency:	Not reported
RB Case Number:	43S0633
File Location:	Regional Board
Potential Media Affected:	Other Groundwater (uses other than drinking water), Soil, Soil Vapor
Potential Contaminants of Concern:	* Solvents
Site History:	Digital Equipment Corporation (DEC) operated a manufacturing facility at the subject site between 1969 and 1983. The facility performed nickel and copper plating of discs. As part of this operation, DEC stored and used hazardous materials including TCA and acetone, and operated an acid neutralization tank whose effluent discharged to the sanitary sewer. After operations were discontinued, DEC removed the acid neutralization tank and received regulatory closure from the Mountain View Fire Department. The Department approved final facility closure for chemical storage in 1990. DEC was acquired by Compaq in 1998; Compaq in turn was acquired by Hewlett Packard in 2002. DEC voluntarily reported a possible release of chlorinated solvents in 1984. This report was based on onsite groundwater monitoring that appeared to show chlorinated solvents in groundwater above drinking water levels. DEC later concluded that these results were false positives, due to laboratory contamination, and that no release of chlorinated solvents to soil or groundwater had occurred. Terra Bella Office Partners, LLC, the landowner, performed a comprehensive soil, soil vapor, and groundwater investigation in 2010. VOCs were either non-detect or in a few cases detected below regulatory standards (e.g., MCLs). Metals were detected but at concentrations consistent with background conditions. Water Board staff concludes that no condition of pollution exists at the site and the case should be closed.

Click here to access the California GeoTracker records for this facility:

SLIC REG 2:

Region:	2
Facility ID:	43S0633
Facility Status:	Leak being confirmed
Date Closed:	Not reported
Local Case #:	Not reported
How Discovered:	Tank Closure

SEA LANE BIOTECHNOLOGIES (Continued) **S101542279**

Leak Cause: UNK
Leak Source: UNK
Date Confirmed: 1/16/1985
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CUPA SANTA CLARA:
Facility Name: AESSENSE CORPORATION
Region: SANTA CLARA
PE#: 2240
Program Description: GENERATES < 10 GAL/YR
Latitude: 37.40986
Longitude: -122.0835
Record ID: PR0424809
Facility ID: FA0277615

HAZNET:
Facility Name: SEA LANE BIOTECHNOLOGIES
envid: S101542279
Year: 2015
GEPAID: CAL000398925
Contact: JEFF NARITA
Telephone: 6503257399
Mailing Name: Not reported
Mailing Address: 1400 TERRA BELLA AVE STE K
Mailing City,St,Zip: MOUNTAIN VIEW, CA 94043
Gen County: Santa Clara
TSD EPA ID: CAD059494310
TSD County: Santa Clara
Waste Category: Laboratory waste chemicals
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.00417
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Santa Clara

envid: S101542279
Year: 2015
GEPAID: CAL000398925
Contact: JEFF NARITA
Telephone: 6503257399
Mailing Name: Not reported
Mailing Address: 1400 TERRA BELLA AVE STE K
Mailing City,St,Zip: MOUNTAIN VIEW, CA 94043
Gen County: Santa Clara
TSD EPA ID: CAD059494310
TSD County: Santa Clara
Waste Category: Other organic solids
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.0125

SEA LANE BIOTECHNOLOGIES (Continued) **S101542279**

Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara
envid:	S101542279
Year:	2015
GEPAID:	CAL000398925
Contact:	JEFF NARITA
Telephone:	6503257399
Mailing Name:	Not reported
Mailing Address:	1400 TERRA BELLA AVE STE K
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 94043
Gen County:	Santa Clara
TSD EPA ID:	CAD059494310
TSD County:	Santa Clara
Waste Category:	Unspecified aqueous solution
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0084
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

CERS TANKS:

Site ID:	242297
CERS ID:	T0608591662
CERS Description:	Cleanup Program Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

O121 **SEA LANE BIOTECHNOLOGIES** **CA CUPA Listings** **S121474860**
WNW **1400 TERRA BELLA AV STE K** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.174 mi.
918 ft. **Site 17 of 21 in cluster O**

Relative:
Lower

Actual:
34 ft.

CUPA SANTA CLARA:

Facility Name:	SEA LANE BIOTECHNOLOGIES
Region:	SANTA CLARA
PE#:	2240
Program Description:	GENERATES < 10 GAL/YR
Latitude:	37.40986
Longitude:	-122.0835
Record ID:	PR0417308
Facility ID:	FA0275482

O122 **MICROCHIP TECHNOLOGY INC** **CA CUPA Listings** **S121468920**
WNW **1300 TERRA BELLA AV** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.174 mi.
918 ft. **Site 18 of 21 in cluster O**

Relative: CUPA SANTA CLARA:
Lower
Actual: Facility Name: MICROCHIP TECHNOLOGY INC
34 ft. Region: SANTA CLARA
PE#: 2202
Program Description: GENERATES < 100 KG/YR
Latitude: 37.409565
Longitude: -122.079989
Record ID: PR0313145
Facility ID: FA0203467

O123 **1300 TERRA BELLA TELEDYNE** **CA HWP** **1001433386**
WNW **1300 TERRA BELLA AVE** **CA WDS** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94040**
0.174 mi.
918 ft. **Site 19 of 21 in cluster O**

Relative: HWP:
Lower
Actual: EPA Id: CAD009111444
34 ft. Cleanup Status: CLOSED
Latitude: 37.41032
Longitude: -122.0809
Facility Type: Historical - Non-Operating
Facility Size: Not reported
Team: Not reported
Supervisor: Not reported
Site Code: Not reported
Assembly District: 24
Senate District: 13
Public Information Officer: Not reported
Public Information Officer: Not reported

Activities:
EPA Id: CAD009111444
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKTRT1
Event Description: New Operating Permit - APPLICATION PART A RECEIVED
Actual Date: 11/19/1980

EPA Id: CAD009111444
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKTRT1
Event Description: New Operating Permit - APPLICATION PART B RECEIVED
Actual Date: 11/08/1988

Closure:
EPA Id: CAD009111444
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1
Event Description: Closure Administrative - ISSUE CLOSURE VERIFICATION
Actual Date: 12/18/2018

EPA Id: CAD009111444
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKTRT1

1300 TERRA BELLA TELEDYNE (Continued) **1001433386**

Event Description: Referred for closure to other agency - REFERRED FOR CLOSURE TO OTHER AGENCY
Actual Date: 10/07/1994

EPA Id: CAD009111444
Facility Type: Historical - Non-Operating
Unit Names: TANKTRT1
Event Description: Closure - ISSUE CLOSURE VERIFICATION
Actual Date: 01/05/1996

Alias:
EPA Id: CAD009111444
Facility Type: Historical - Non-Operating
Alias Type: FRS
Alias: 110000609271

EPA Id: CAD009111444
Facility Type: Historical - Non-Operating
Alias Type: Envirostor ID Number
Alias: 43360082

EPA Id: CAD009111444
Facility Type: Historical - Non-Operating
Alias Type: Alternate Name
Alias: TELEDYNE SEMICONDUCTOR

WDS:
Facility ID: San Francisco Bay 438122003
Facility Type: Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAG912003 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 2
Facility Telephone: Not reported
Facility Contact: JIM CRONIN
Agency Name: TDY INDUSTRIES INC.
Agency Address: 1000 Six PPG Place
Agency City,St,Zip: Pittsburgh 152225479
Agency Contact: Edgard Bertaut
Agency Telephone: 4123953052
Agency Type: Private
SIC Code: 3674
SIC Code 2: Not reported
Primary Waste Type: Not reported
Primary Waste: Not reported
Waste Type2: Not reported
Waste2: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported
POTW: Not reported

1300 TERRA BELLA TELEDYNE (Continued) **1001433386**

Treat To Water: Moderate Threat to Water Quality. A violation could have a major adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Awsthetic impairment would include nuisance from a waste treatment facility.

Complexity: Category B - Any facility having a physical, chemical, or biological waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without treatment systems that are complex, such as marinas with petroleum products, solid wastes, and sewage pump out facilities.

O124 **TDY INDUSTRIES, INC** **CA ENVIROSTOR** **S100833421**
WNW **1300 TERRA BELLA AVENUE** **CA CPS-SLIC** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043** **CA HIST Cal-Sites**
0.174 mi. **CA DEED**
918 ft. **Site 20 of 21 in cluster O** **CA BOND EXP. PLAN**
CA Cortese
Relative: Lower **CA EMI**
CA ENF
Actual: 34 ft. **CA HIST CORTESE**
CA CIWQS
CA CERS

ENVIROSTOR:

Facility ID:	43360082
Status:	Refer: RWQCB
Status Date:	07/22/1987
Site Code:	Not reported
Site Type:	Federal Superfund
Site Type Detailed:	State Response or NPL
Acres:	1
NPL:	YES
Regulatory Agencies:	US EPA
Lead Agency:	US EPA
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Berkeley
Assembly:	24
Senate:	13
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.41110
Longitude:	-122.0805
APN:	153-14-029
Past Use:	NONE SPECIFIED
Potential COC:	* HALOGENATED SOLVENTS * CONTAMINATED SOIL
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	MICROCHIP TECHNOLOGY INC.
Alias Type:	Alternate Name
Alias Name:	TELEDYNE COMPONENTS, MOUNTAIN VIEW
Alias Type:	Alternate Name
Alias Name:	153-14-029
Alias Type:	APN
Alias Name:	CAD009111444
Alias Type:	EPA Identification Number

TDY INDUSTRIES, INC (Continued) **S100833421**

Alias Name: 110000609271
Alias Type: EPA (FRS #)
Alias Name: 110033618958
Alias Type: EPA (FRS #)
Alias Name: SL721281224
Alias Type: GeoTracker Global ID
Alias Name: P23085
Alias Type: PCode
Alias Name: 43360082
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Cost Recovery Settlements/Decrees
Completed Date: 12/01/1995
Comments: Cost Recovery settlement was signed to settle all past costs for $25,000. The money was sent in June 1995.

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

Facility ID: 71002253
Status: Inactive - Needs Evaluation
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Berkeley
Assembly: 24
Senate: 13
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.41032
Longitude: -122.0809
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD009111444
Alias Type: EPA Identification Number
Alias Name: 110000609271

TDY INDUSTRIES, INC (Continued) **S100833421**

Alias Type: EPA (FRS #)
Alias Name: 71002253
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Facility ID: 80001590
Status: Refer: RWQCB
Status Date: 01/01/2008
Site Code: Not reported
Site Type: Corrective Action
Site Type Detailed: Corrective Action
Acres: 0
NPL: NO
Regulatory Agencies: RWQCB
Lead Agency: WQC
Program Manager: Not reported
Supervisor: * Unknown
Division Branch: Cleanup Berkeley
Assembly: 24
Senate: 13
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.41032
Longitude: -122.0809
APN: 153-14-029
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: TELEDYNE SEMICONDUCTOR
Alias Type: Alternate Name
Alias Name: 153-14-029
Alias Type: APN
Alias Name: CAD009111444
Alias Type: EPA Identification Number
Alias Name: 110000609271
Alias Type: EPA (FRS #)
Alias Name: 43360082
Alias Type: Envirostor ID Number
Alias Name: 80001590

TDY INDUSTRIES, INC (Continued) **S100833421**

Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Questionnaire
Completed Date: 09/26/1997
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Selection and Statement of Basis
Completed Date: 02/22/1991
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Agreement
Completed Date: 02/22/1991
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Agreement
Completed Date: 02/19/1986
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 08/01/1984
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 08/01/1984
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Workplan
Completed Date: 02/19/1986
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 02/22/1991
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan
Completed Date: 05/01/1989
Comments: Not reported

Completed Area Name: PROJECT WIDE

TDY INDUSTRIES, INC (Continued) **S100833421**

Completed Sub Area Name: Not reported
Completed Document Type: Remedy Constructed: Operating Properly & Successfully
Completed Date: 04/01/1991
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Measures Study Workplan
Completed Date: 05/01/1989
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Workplan
Completed Date: 02/19/1986
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 07/01/1984
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 08/01/1984
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Construction Complete
Completed Date: 04/01/1991
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Groundwater Migration Controlled
Completed Date: 12/28/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Remedy Selected
Completed Date: 02/22/1991
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Measures Study Report
Completed Date: 02/22/1991
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Implementation Report
Completed Date: 02/22/1991

TDY INDUSTRIES, INC (Continued) **S100833421**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Human Exposure Controlled
Completed Date: 12/28/2000
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CPS-SLIC:
Region: STATE
Facility Status: **Open - Remediation**
Status Date: 10/01/1986
Global Id: SL721281224
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.4106132140258
Longitude: -122.080657482147
Case Type: Cleanup Program Site
Case Worker: RWP
Local Agency: SANTA CLARA VALLEY WATER DISTRICT
RB Case Number: 43S0128
File Location: Regional Board
Potential Media Affected: Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern: Other Chlorinated Hydrocarbons, Tetrachloroethylene (PCE), Trichloroethylene (TCE), Vinyl chloride
Site History: The Teledyne property is part of a two-property Superfund site along with the adjacent Spectra-Physics property. The responsible parties (RPs) for the Teledyne/Spectra-Physics site completed a Monitored Natural Attenuation (MNA) study in the off-property area north of and downgradient of the site. The MNA study concluded that natural breakdown of the chlorinated volatile organic compounds of concern is occuring naturally and at the same rate as groundwater extraction. As a result, only a few of the off-property downgradient extraction wells were operating mainly to maintain hydraulic control of the plume. The RPs completed a pilot study to test the feasibility of enhanced reductive dechlorination (ERD) and concluded that ERD is feasible with bioaugmentation of the Shallow Zone. Within the last five years, the RPs detected elevated source areas at the Teledyne property using high resolution technology and continuously logged and screened ERD injection well boreholes. Implementing a full-scale ERD treatability study, they have been and are currently remediating the property with groundwater-CVOC levels dropping from as much as over 80,000 ug/l to low multiples of MCLs. Several rounds of ERD injections successfully cleaned up most of the Shallow Zone at the Teledyne property and the adjacent Spring Street residential area to drinking water standards and the treatability study was even more successful in the underlying Upper and Lower Intermediate Zones. An

TDY INDUSTRIES, INC (Continued) **S100833421**

on-property IA VI evaluation at a SpectraPhysics property in 2004 indicated no IA-CVOC contamination above the Regional Water Board's 2008 ESLs. More recently, the RPs also assertively evaluated potential IA VI in the off-property commercial North Bayshore and residential Spring Street areas to conclude that IA VI is not occurring in most of the commercial area and is occasionally occurring in several homes in the residential area. The RPs installed sub-slab depressurization systems in the impacted on-property commercial buildings and offered the affected residents crawl space fans to address the issue.

Click here to access the California GeoTracker records for this facility:

SLIC REG 2:
Region: 2
Facility ID: 43S0128
Facility Status: Remedial action (cleanup) Underway
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Calsite:
Region: BERKELEY
Facility ID: 43360082
Facility Type: NPRP
Type: NPL SITE, RP-FUNDED
Branch: NC
Branch Name: NORTH COAST
File Name: Not reported
State Senate District: 07221987
Status: DOES NOT REQUIRE DTSC ACTION. REFERRED TO REGIONAL WATER QUALITY CONTROL BOARD (RWQCB) LEAD
Status Name: PROPERTY/SITE REFERRED TO RWQCB
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: Not reported
Supervisor Responsible for Site: Not reported
Region Water Control Board: SF
Region Water Control Board Name: SAN FRANCISCO BAY
Lat/Long Direction: Not reported

TDY INDUSTRIES, INC (Continued) **S100833421**

Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Lat/Long Description:	Not reported
State Assembly District Code:	22
State Senate District Code:	13
Facility ID:	43360082
Activity:	PRP
Activity Name:	POTENTIAL RESPONSIBLE PARTY SEARCH
AWP Code:	BASE
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	12231991
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	REFRW
Definition of Status:	PROPERTY/SITE REFERRED TO RWQCB
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:	43360082
Activity:	COST
Activity Name:	COST RECOVERY
AWP Code:	SETTL
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	12011995
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	REFRW
Definition of Status:	PROPERTY/SITE REFERRED TO RWQCB
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Alternate Address:	1300 TERRA BELLA AVENUE
Alternate City,St,Zip:	MOUNTAIN VIEW, CA 94043
Background Info:	Teledyne Semiconductor has operated a semiconductor manufacturing facility at this one-acre site since 1962. Chemicals

TDY INDUSTRIES, INC (Continued) **S100833421**

used in the manufacturing process and wastes generated by the process are handled and stored onsite.
In 1982, Teledyne notified the RWQCB that soil and groundwater near underground solvent storage tanks was contaminated. Further study revealed that a groundwater contaminant plume had migrated northward and contaminated forty private domestic wells. The contaminants identified in soil and groundwater include trichloroethylene (TCE), dichloroethylene (DCE), Freon-113, dichlorobenzene (DCB), perchloroethylene (PCE), and xylene.
About 270,000 people residing within three miles of the site depend on groundwater as a source of drinking water. The groundwater contamination represents a potential threat to municipal and other wells.

Comments Date: 01011985
Comments: This is the date the site was first listed AWP pursuant to
Comments Date: 01011985
Comments: Section 25356.
Comments Date: 07251991
Comments: Groundwater and soil contaminated with various VOCs. Poten-
Comments Date: 07251991
Comments: tial for health threat by swallowing/touching groundwater
Comments Date: 07251991
Comments: or soil, eating contaminated plants or animals, or exposure
Comments Date: 07251991
Comments: to hazardous substances by breathing contaminated gases or
Comments Date: 07251991
Comments: dust particles that onsite clean-up workers could release
Comments Date: 07251991
Comments: into the air.
Comments Date: 07251991
Comments: RWQCB has the lead for site clean-up.
Comments Date: 12011995
Comments: Cost Recovery settlement was signed to settle all past
Comments Date: 12011995
Comments: costs for $25,000. The money was sent in June 1995.
ID Name: BEP DATABASE PCODE
ID Value: P23085
ID Name: EPA IDENTIFICATION NUMBER
ID Value: CAD009111444
Alternate Name: TELEDYNE SEMICONDUCTOR
Alternate Name: TELEDYNE COMPONENTS, MOUNTAIN VIEW
Alternate Name: Not reported
Special Programs Code: Not reported
Special Programs Name: Not reported

DEED:
Envirostor ID: SL721281224
Area: Not reported
Sub Area: Not reported
Site Type: SLIC
Status: OPEN - REMEDIATION
Agency: SWRCB
Covenant Uploaded: Not reported
Deed Date(s): 08/04/2010
File Name: Geotracker Land Use/Deed Restrictions

TDY INDUSTRIES, INC (Continued) **S100833421**

Envirostor ID: SL721281224
Area: Not reported
Sub Area: Not reported
Site Type: SLIC
Status: OPEN - REMEDIATION
Agency: SWRCB
Covenant Uploaded: Y
Deed Date(s): 03/05/1992
File Name: Geotracker Land Use/Deed Restrictions

Envirostor ID: SL721281224
Area: Not reported
Sub Area: Not reported
Site Type: SLIC
Status: OPEN - REMEDIATION
Agency: SWRCB
Covenant Uploaded: Y
Deed Date(s): 08/04/2010
File Name: Geotracker Land Use/Deed Restrictions

CA BOND EXP. PLAN:
Reponsible Party: NPL SITE CLEANUP WORKPLAN
Project Revenue Source Company: Not reported
Project Revenue Source Addr: Not reported
Project Revenue Source City,St,Zip: Not reported
Project Revenue Source Desc: Teledyne, the responsible party, has been conducting remedial activities under and order issued by the RWQCB. DHS has budgeted $50,000 for development, review and approval of a RAP and will seek to recover all actual costs from the responsible parties.
Site Description: Teledyne Semiconductor has operated a semiconductor manufacturing facility at this one-acre site since 1962. Chemicals used in the manufacturing process and wastes generated by this process are handled and stored onsite.
Hazardous Waste Desc: In 1982, Teledyne notified the RWQCB that soil and ground water near underground solvent storage tanks was contaminated. Further study revealed that a ground water contaminant plume and migrated northward and contaminated 40 private domestic wells. The contaminants identified in soil and ground water are trichloroethylene (TCE), dichloroethylene (DCE), Freon-113, dichlorobenzene (DCB), perchloroethylene (PCE) and xylene.
Threat To Public Health & Env: About 270,000 people residing within 3 miles of the site depend on ground water as a source of drinking water. The ground water contamination represents a potential threat to municipal and other wells.
Site Activity Status: An investigation conducted in June, 1984, revealed that solvents had contaminated private wells to the north of the site. Contaminated wells were closed and an alternate drinking water supply was provided to affected residents. A ground water extraction system was installed onsite and began operating in October, 1986. Characterization of soil and ground water contamination is continuing.

CORTESE:
Region: CORTESE
Envirostor Id: Not reported
Site/Facility Type: Not reported
Cleanup Status: Not reported
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported

TDY INDUSTRIES, INC (Continued) **S100833421**

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:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Cease Desist Orders & Cleanup Abatement Orders

Region:	CORTESE
Envirostor 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:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Cease Desist Orders & Cleanup Abatement Orders

EMI:

Year:	1987
County Code:	43
Air Basin:	SF
Facility ID:	2144
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	9
Reactive Organic Gases Tons/Yr:	5
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1990
County Code:	43
Air Basin:	SF
Facility ID:	2144

TDY INDUSTRIES, INC (Continued) **S100833421**

Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1995
County Code:	43
Air Basin:	SF
Facility ID:	9220
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1996
County Code:	43
Air Basin:	SF
Facility ID:	9220
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1997
County Code:	43
Air Basin:	SF
Facility ID:	9220
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4

TDY INDUSTRIES, INC (Continued) **S100833421**

Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1998
County Code:	43
Air Basin:	SF
Facility ID:	9220
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1999
County Code:	43
Air Basin:	SF
Facility ID:	9220
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2000
County Code:	43
Air Basin:	SF
Facility ID:	9220
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

TDY INDUSTRIES, INC (Continued) **S100833421**

Year:	2003
County Code:	43
Air Basin:	SF
Facility ID:	2144
Air District Name:	BA
SIC Code:	8711
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2005
County Code:	43
Air Basin:	SF
Facility ID:	2144
Air District Name:	BA
SIC Code:	8711
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.039
Reactive Organic Gases Tons/Yr:	.0272454
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2006
County Code:	43
Air Basin:	SF
Facility ID:	2144
Air District Name:	BA
SIC Code:	8711
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.039
Reactive Organic Gases Tons/Yr:	.0272454
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2007
County Code:	43
Air Basin:	SF
Facility ID:	2144
Air District Name:	BA
SIC Code:	8711

TDY INDUSTRIES, INC (Continued) **S100833421**

Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.039
Reactive Organic Gases Tons/Yr:	.0272454
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

ENF:

Region:	2
Facility Id:	263121
Agency Name:	Not reported
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Not reported
# Of Agencies:	Not reported
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	3674
SIC Desc 1:	Semiconductors and Related Devices
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:	Enf Action
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:	Not reported
Reg Measure Id:	Not reported
Reg Measure Type:	Not reported
Region:	Not reported
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported

TDY INDUSTRIES, INC (Continued) **S100833421**

Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Not reported
Status Date:	Not reported
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:	Not reported
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Not reported
Enforcement Id(EID):	219863
Region:	2
Order / Resolution Number:	87-002
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	01/15/1987
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 2 438122N02
Description:	ENF ORDER
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

Region:	2
Facility Id:	263121
Agency Name:	Not reported
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Not reported
# Of Agencies:	Not reported
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	3674
SIC Desc 1:	Semiconductors and Related Devices
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported

TDY INDUSTRIES, INC (Continued) **S100833421**

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:	Enf Action
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:	Not reported
Reg Measure Id:	Not reported
Reg Measure Type:	Not reported
Region:	Not reported
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:	Not reported
Status Date:	Not reported
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:	Not reported
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Not reported
Enforcement Id(EID):	219833
Region:	2
Order / Resolution Number:	89-019
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	01/18/1989
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported

TDY INDUSTRIES, INC (Continued) **S100833421**

EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 2 438122N02
Description:	ENF ORDER
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
Region:	2
Facility Id:	263121
Agency Name:	Not reported
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Not reported
# Of Agencies:	Not reported
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	3674
SIC Desc 1:	Semiconductors and Related Devices
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:	Enf Action
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:	Not reported
Reg Measure Id:	Not reported
Reg Measure Type:	Not reported
Region:	Not reported
Order #:	Not reported
Npdes# CA#:	Not reported

TDY INDUSTRIES, INC (Continued) **S100833421**

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:	Not reported
Status Date:	Not reported
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:	Not reported
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Not reported
Enforcement Id(EID):	219828
Region:	2
Order / Resolution Number:	91-02501
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	02/20/1991
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 - 2 438122N02
Description:	SCR-FINAL REMEDIATION PLAN FOR CLEANUP OF POLLUTED SOIL & GW.
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
Region:	2
Facility Id:	263120
Agency Name:	Not reported
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Not reported
# Of Agencies:	Not reported
Place Latitude:	37.409821
Place Longitude:	-122.080817
SIC Code 1:	3674

TDY INDUSTRIES, INC (Continued) **S100833421**

SIC Desc 1:	Semiconductors and Related Devices
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:	Enf Action
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:	NPDESWW
# Of Programs:	Not reported
WDID:	Not reported
Reg Measure Id:	Not reported
Reg Measure Type:	Not reported
Region:	Not reported
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:	Not reported
Status Date:	Not reported
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:	Not reported
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Not reported
Enforcement Id(EID):	222047
Region:	2
Order / Resolution Number:	R2-1997-0131
Enforcement Action Type:	Admin Civil Liability
Effective Date:	01/21/1998

TDY INDUSTRIES, INC (Continued) **S100833421**

Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 2 438122001
Description:	ACL-$10,000 OF THE TOTAL $12,100 WILL BE SPENT FOR SUPPLEMENTAL ENVIRONMENTAL PROJECT
Program:	NPDESWW
Latest Milestone Completion Date:	2003-05-14
# Of Programs1:	1
Total Assessment Amount:	12100
Initial Assessed Amount:	0
Liability $ Amount:	2100
Project $ Amount:	0
Liability $ Paid:	2100
Project $ Completed:	0
Total $ Paid/Completed Amount:	12100
Region:	2
Facility Id:	263121
Agency Name:	Not reported
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Not reported
# Of Agencies:	Not reported
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	3674
SIC Desc 1:	Semiconductors and Related Devices
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:	Enf Action
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:	Not reported

TDY INDUSTRIES, INC (Continued) **S100833421**

Reg Measure Id:	Not reported
Reg Measure Type:	Not reported
Region:	Not reported
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:	Not reported
Status Date:	Not reported
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:	Not reported
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Not reported
Enforcement Id(EID):	222955
Region:	2
Order / Resolution Number:	94-18401
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	12/14/1994
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 - 2 438122N02
Description:	SCR-AMENDMENT.
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

HIST CORTESE:

Region:	CORTESE
Facility County Code:	43
Reg By:	WBC&D
Reg Id:	2 438122N02

TDY INDUSTRIES, INC (Continued) **S100833421**

CIWQS:

Agency:	TDY Industries, LLC
Agency Address:	1000 Six Ppg Place, Pittsburg, PA 15222-5479
Place/Project Type:	Other
SIC/NAICS:	3674
Region:	2
Program:	UNREGS
Regulatory Measure Status:	Historical
Regulatory Measure Type:	WDR
Order Number:	86-009
WDID:	2 438122N02
NPDES Number:	Not reported
Adoption Date:	02/19/1986
Effective Date:	02/19/1986
Termination Date:	Not reported
Expiration/Review Date:	02/19/1989
Design Flow:	0.5001
Major/Minor:	Not reported
Complexity:	A
TTWQ:	1
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	Not reported
Longitude:	Not reported

Agency:	TDY Industries, LLC
Agency Address:	1000 Six Ppg Place, Pittsburg, PA 15222-5479
Place/Project Type:	Other
SIC/NAICS:	3674
Region:	2
Program:	NPDESWW
Regulatory Measure Status:	Historical
Regulatory Measure Type:	WDR
Order Number:	97-00804
WDID:	2 438122001
NPDES Number:	Not reported
Adoption Date:	01/15/1997
Effective Date:	01/15/1997
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	0.072
Major/Minor:	Not reported
Complexity:	B
TTWQ:	2
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	37.409821
Longitude:	-122.080817

CERS TANKS:

Site ID:	353620
CERS ID:	263120
CERS Description:	NPDES Wastewater and Stormwater

Violations:

Site ID:	353620
Site Name:	Teledyne-1300 Terra

TDY INDUSTRIES, INC (Continued) **S100833421**

Violation Date: 01-04-2001
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Effluent violation
Violation Division: Water Boards
Violation Program: NPDESWW
Violation Source: CIWQS

Enforcement Action:
Site ID: 353620
Site Name: Teledyne-1300 Terra
Site Address: 1300 TERRA BELLA
Site City: MOUNTAIN VIEW
Site Zip: 94043
Enf Action Date: 01-21-1998
Enf Action Type: Administrative Enforcement with Penality
Enf Action Description: Administrative Enforcement with Civil Liability (Penality)
Enf Action Notes: Not reported
Enf Action Division: Water Boards
Enf Action Program: UNSPEC
Enf Action Source: CIWQS

Site ID: 198666
CERS ID: SL721281224
CERS Description: Cleanup Program Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Roger Papler - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY STREET, SUITE 1500
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Local Agency Caseworker
Entity Name: GEORGE COOK - SANTA CLARA VALLEY WATER DISTRICT
Entity Title: Not reported
Affiliation Address: 5750 ALMADEN EXPRESSWAY
Affiliation City: SAN JOSE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 4082652607

Site ID: 197204
CERS ID: CAD009111444
CERS Description: Hazardous Waste

Affiliation:
Affiliation Type Desc: Facility Contact
Entity Name: KEN CARTA, FACILITIES MANAGER
Entity Title: Not reported
Affiliation Address: 1300 TERRA BELLA AVE

TDY INDUSTRIES, INC (Continued) **S100833421**

Affiliation City: MOUNTAIN VIEW
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 940431850
Affiliation Phone: 6502151401

Affiliation Type Desc: Facility Owner
Entity Name: MICROCHIP TECHNOLOGY INC
Entity Title: Not reported
Affiliation Address: 1300 TERRA BELLA AVE
Affiliation City: MOUNTAIN VIEW
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 940431800
Affiliation Phone: 0000000000

N125 **JAMES M HALSNE** **CA HIST UST** **U001594315**
SSW **790 STIERLIN RD** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94040**
0.176 mi.
928 ft. **Site 16 of 16 in cluster N**

Relative: HIST UST:
Higher
Actual: File Number: 0002CE23
44 ft. URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002CE23.pdf
Region: STATE
Facility ID: 00000027075
Facility Type: Gas Station
Other Type: Not reported
Contact Name: Not reported
Telephone: 0000000000
Owner Name: ARCO PETROLEUM PRODUCTS CO.
Owner Address: 515 SOUTH FLOWER STREET
Owner City,St,Zip: LOS ANGELES, CA 90071
Total Tanks: 0006

Tank Num: 001
Container Num: 0000000001
Year Installed: 1968
Tank Capacity: 00006000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: 0000240
Leak Detection: Stock Inventor, 10

Tank Num: 002
Container Num: 0000000002
Year Installed: 1968
Tank Capacity: 00006000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: 0000240
Leak Detection: Stock Inventor, 10

Tank Num: 003
Container Num: 0000000003
Year Installed: 1968

JAMES M HALSNE (Continued) **U001594315**

Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	0000240
Leak Detection:	Stock Inventor, 10

Tank Num:	004
Container Num:	0000000004
Year Installed:	1968
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	0000240
Leak Detection:	Stock Inventor, 10

Tank Num:	005
Container Num:	0000000005
Year Installed:	Not reported
Tank Capacity:	00000500
Tank Used for:	PRODUCT
Type of Fuel:	WASTE OIL
Container Construction Thickness:	0000093
Leak Detection:	Stock Inventor

Tank Num:	006
Container Num:	0000000006
Year Installed:	1983
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, 10

Click here for Geo Tracker PDF:

M126 **J & J GRFX** **CA CUPA Listings** **S121473702**
ESE **985 TERRA BELLA AV D** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.177 mi.
934 ft. **Site 7 of 7 in cluster M**

Relative: CUPA SANTA CLARA:
Higher

Facility Name:	J & J GRFX
Region:	SANTA CLARA
PE#:	2272
Program Description:	SILVER WASTE ONLY 100+ KG/YR & < 100 KG/MO
Latitude:	37.408328
Longitude:	-122.072561
Record ID:	PR0381275
Facility ID:	FA0260158

Actual:
39 ft.

O127 **RUCKER & KOLLS FACILITY** **CA CPS-SLIC** **S101542532**
West **1305 TERRA BELLA AVE** **CA CERS** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.182 mi.
962 ft. **Site 21 of 21 in cluster O**

Relative:
Lower

Actual:
35 ft.

CPS-SLIC:

Region:	STATE
Facility Status:	**Open - Inactive**
Status Date:	04/17/2009
Global Id:	T0608591675
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	Not reported
Latitude:	37.409709494391
Longitude:	-122.081418134979
Case Type:	Cleanup Program Site
Case Worker:	UUU
Local Agency:	Not reported
RB Case Number:	43S0725
File Location:	Not reported
Potential Media Affected:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Trichloroethylene (TCE)
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

SLIC REG 2:

Region:	2
Facility ID:	43S0725
Facility Status:	Leak being confirmed
Date Closed:	Not reported
Local Case #:	Not reported
How Discovered:	Tank Closure
Leak Cause:	UNK
Leak Source:	UNK
Date Confirmed:	11/7/1984
Date Prelim Site Assmnt Workplan Submitted:	Not reported
Date Preliminary Site Assessment Began:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

CERS TANKS:

Site ID:	198175
CERS ID:	T0608591675
CERS Description:	Cleanup Program Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Q128
SSW
1/8-1/4
0.182 mi.
962 ft.

Relative:
Higher

Actual:
44 ft.

HADAD PETORLEUM INC DBA MOUNTAIN VIEW ARCO
790 N SHORELINE BLVD
MOUNTAIN VIEW, CA 94043

Site 1 of 8 in cluster Q

CA CERS HAZ WASTE
CA SWEEPS UST
CA FID UST
CA CUPA Listings
CA HAZNET
CA CERS

S101594495
N/A

CERS HAZ WASTE:

Site ID:	142227
CERS ID:	10600342
CERS Description:	Hazardous Waste Generator

Violations:

Site ID:	142227
Site Name:	Peninsula Auto Repair
Violation Date:	01-04-2017
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 05/30/2017. Facility as needed
Violation Division:	Mountain View Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	142227
Site Name:	Peninsula Auto Repair
Violation Date:	01-14-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to 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 03/02/2016. Update inventory as needed.
Violation Division:	Mountain View Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	142227
Site Name:	Peninsula Auto Repair
Violation Date:	12-08-2014
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 01/08/2015.
Violation Division:	Mountain View Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-16-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No Inspection
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP

HADAD PETORLEUM INC DBA MOUNTAIN VIEW ARCO (Continued) **S101594495**

Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-19-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite for routine inspection, noted the following: -Facility utilizes underground waste oil tank -1 x 55 gallon drum of waste coolant in secondary containment, management cleaned up moisture today in secondary area that was observed -Emergency Equipment is available in the shop -Manifests available; using RCA Environmental -Accumulation Start date was added to used oil filters drum in back of shop No violations were noted today, thank you.
Eval Division:	Santa Clara County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-08-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-04-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-08-2014
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-14-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-02-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency

HADAD PETORLEUM INC DBA MOUNTAIN VIEW ARCO (Continued) **S101594495**

Eval Notes: All violations corrected.
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-30-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: All violations corrected.
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-30-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Abdul-Rahman Al-Azzawy
Entity Title: Not reported
Affiliation Address: 790 N. Shoreline Blvd.
Affiliation City: Mountain View
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94043
Affiliation Phone: (408) 480-9139

Affiliation Type Desc: Identification Signer
Entity Name: Abdul-Rahman Al-Azzawy
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: Abdul-Rahman Al-Azzawy
Entity Title: Not reported
Affiliation Address: 790 N. Shoreline Blvd.
Affiliation City: Mountain View
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94043
Affiliation Phone: (408) 480-9139

Affiliation Type Desc: Operator
Entity Name: Abdul-Rahman Al-Azzawy
Entity Title: Not reported

HADAD PETORLEUM INC DBA MOUNTAIN VIEW ARCO (Continued) **S101594495**

Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(650) 960-1300
Affiliation Type Desc:	Parent Corporation
Entity Name:	Peninsula Auto Repair
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	Hadad Petroleum, Inc.
Entity Title:	Not reported
Affiliation Address:	P.O. Box 70730
Affiliation City:	Sunnyvale
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94086
Affiliation Phone:	(408) 736-2500
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	790 N. Shoreline Blvd.
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	Santa Clara County Environmental Health
Entity Title:	Not reported
Affiliation Address:	1555 Berger Drive, Suite 300
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95112-2716
Affiliation Phone:	(408) 918-3400

SWEEPS UST:

Status:	Active
Comp Number:	27075
Number:	9
Board Of Equalization:	44-026000
Referral Date:	05-04-92
Action Date:	05-04-92
Created Date:	10-13-88
Owner Tank Id:	1

HADAD PETORLEUM INC DBA MOUNTAIN VIEW ARCO (Continued) **S101594495**

SWRCB Tank Id: 43-005-027075-000001
Tank Status: A
Capacity: 12000
Active Date: 01-16-90
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 4

Status: Active
Comp Number: 27075
Number: 9
Board Of Equalization: 44-026000
Referral Date: 05-04-92
Action Date: 05-04-92
Created Date: 10-13-88
Owner Tank Id: 2
SWRCB Tank Id: 43-005-027075-000002
Tank Status: A
Capacity: 12000
Active Date: 01-06-94
Tank Use: M.V. FUEL
STG: P
Content: MID GRADE UN
Number Of Tanks: Not reported

Status: Active
Comp Number: 27075
Number: 9
Board Of Equalization: 44-026000
Referral Date: 05-04-92
Action Date: 05-04-92
Created Date: 10-13-88
Owner Tank Id: 3
SWRCB Tank Id: 43-005-027075-000003
Tank Status: A
Capacity: 12000
Active Date: 01-06-94
Tank Use: M.V. FUEL
STG: P
Content: SUPER UNLEAD
Number Of Tanks: Not reported

Status: Active
Comp Number: 27075
Number: 9
Board Of Equalization: 44-026000
Referral Date: 05-04-92
Action Date: 05-04-92
Created Date: 10-13-88
Owner Tank Id: 5
SWRCB Tank Id: 43-005-027075-000005
Tank Status: A
Capacity: 550
Active Date: 01-06-94
Tank Use: OIL
STG: W

HADAD PETORLEUM INC DBA MOUNTAIN VIEW ARCO (Continued) **S101594495**

Content: WASTE OIL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 27075
Number: Not reported
Board Of Equalization: 44-026000
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 43-005-027075-000004
Tank Status: Not reported
Capacity: 6000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 2

Status: Not reported
Comp Number: 27075
Number: Not reported
Board Of Equalization: 44-026000
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 43-005-027075-000006
Tank Status: Not reported
Capacity: 12000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 43001995
Regulated By: UTNKA
Regulated ID: 00027075
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 790 STIERLIN RD
Mailing Address 2: Not reported
Mailing City,St,Zip: MOUNTAIN VIEW 94040
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

HADAD PETORLEUM INC DBA MOUNTAIN VIEW ARCO (Continued) **S101594495**

CUPA SANTA CLARA:

Facility Name:	MOUNTAIN VIEW ARCO
Region:	SANTA CLARA
PE#:	2205
Program Description:	GENERATES 100 KG YR TO <5 TONS/YR
Latitude:	37.389475
Longitude:	-122.081694
Record ID:	PR0384189
Facility ID:	FA0261969

Region:	SANTA CLARA
PE#:	2205
Program Description:	GENERATES 100 KG YR TO <5 TONS/YR
Latitude:	37.40594
Longitude:	-122.07848
Record ID:	PR0419872
Facility ID:	FA0277836

HAZNET:

Facility Name:	HADAD PETORLEUM INC DBA MOUNTAIN VIEW ARCO
envid:	S101594495
Year:	2016
GEPAID:	CAL000387806
Contact:	ED HADAD
Telephone:	4086917971
Mailing Name:	Not reported
Mailing Address:	PO BOX 70730
Mailing City,St,Zip:	SUNNYVALE, CA 940860730
Gen County:	San Bernardino
TSD EPA ID:	CAD008302903
TSD County:	Los Angeles
Waste Category:	Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.06
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Bernardino

envid:	S101594495
Year:	2016
GEPAID:	CAL000387806
Contact:	ED HADAD
Telephone:	4086917971
Mailing Name:	Not reported
Mailing Address:	PO BOX 70730
Mailing City,St,Zip:	SUNNYVALE, CA 940860730
Gen County:	San Bernardino
TSD EPA ID:	NVD980895338
TSD County:	99
Waste Category:	Other organic solids
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0775
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Bernardino

HADAD PETORLEUM INC DBA MOUNTAIN VIEW ARCO (Continued) **S101594495**

envid: S101594495
Year: 2015
GEPAID: CAL000387806
Contact: ED HADAD
Telephone: 4086917971
Mailing Name: Not reported
Mailing Address: PO BOX 70730
Mailing City,St,Zip: SUNNYVALE, CA 940860730
Gen County: San Bernardino
TSD EPA ID: NVD980895338
TSD County: 99
Waste Category: Other organic solids
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.055
Cat Decode: Not reported
Method Decode: Not reported
Facility County: San Bernardino

CERS TANKS:
Site ID: 142227
CERS ID: 10600342
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 142227
Site Name: Peninsula Auto Repair
Violation Date: 01-04-2017
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 05/30/2017. Facility as needed
Violation Division: Mountain View Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 142227
Site Name: Peninsula Auto Repair
Violation Date: 01-14-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to 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 03/02/2016. Update inventory as needed.
Violation Division: Mountain View Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 142227
Site Name: Peninsula Auto Repair
Violation Date: 12-08-2014
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

HADAD PETORLEUM INC DBA MOUNTAIN VIEW ARCO (Continued) **S101594495**

substantial change.
Violation Notes: Returned to compliance on 01/08/2015.
Violation Division: Mountain View Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-16-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No Inspection
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-19-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Onsite for routine inspection, noted the following: -Facility utilizes underground waste oil tank -1 x 55 gallon drum of waste coolant in secondary containment, management cleaned up moisture today in secondary area that was observed -Emergency Equipment is available in the shop -Manifests available; using RCA Environmental -Accumulation Start date was added to used oil filters drum in back of shop No violations were noted today, thank you.
Eval Division: Santa Clara County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-08-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-04-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-08-2014
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

HADAD PETORLEUM INC DBA MOUNTAIN VIEW ARCO (Continued) **S101594495**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-14-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-02-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: All violations corrected.
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-30-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: All violations corrected.
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-30-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Abdul-Rahman Al-Azzawy
Entity Title: Not reported
Affiliation Address: 790 N. Shoreline Blvd.
Affiliation City: Mountain View
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94043
Affiliation Phone: (408) 480-9139

Affiliation Type Desc: Identification Signer
Entity Name: Abdul-Rahman Al-Azzawy
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

HADAD PETORLEUM INC DBA MOUNTAIN VIEW ARCO (Continued) **S101594495**

Affiliation Type Desc:	Legal Owner
Entity Name:	Abdul-Rahman Al-Azzawy
Entity Title:	Not reported
Affiliation Address:	790 N. Shoreline Blvd.
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94043
Affiliation Phone:	(408) 480-9139

Affiliation Type Desc:	Operator
Entity Name:	Abdul-Rahman Al-Azzawy
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:	(650) 960-1300

Affiliation Type Desc:	Parent Corporation
Entity Name:	Peninsula Auto Repair
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Property Owner
Entity Name:	Hadad Petroleum, Inc.
Entity Title:	Not reported
Affiliation Address:	P.O. Box 70730
Affiliation City:	Sunnyvale
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94086
Affiliation Phone:	(408) 736-2500

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	790 N. Shoreline Blvd.
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	Not reported

Affiliation Type Desc:	CUPA District
Entity Name:	Santa Clara County Environmental Health
Entity Title:	Not reported
Affiliation Address:	1555 Berger Drive, Suite 300
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	Not reported

HADAD PETORLEUM INC DBA MOUNTAIN VIEW ARCO (Continued) **S101594495**

Affiliation Zip: 95112-2716
Affiliation Phone: (408) 918-3400

Q129 **ARCO SERVICE STATION #6050** **CA LUST** **S100179328**
SSW **790 NO. SHORELINE** **CA DEED** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 91351** **CA Notify 65**
0.182 mi. **CA CERS**
962 ft. **Site 2 of 8 in cluster Q**

Relative:
Higher

Actual:
44 ft.

LUST:
Lead Agency: SANTA CLARA COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608500185
Global Id: T0608500185
Latitude: 37.405926746
Longitude: -122.078318016
Status: Completed - Case Closed
Status Date: 07/26/2004
Case Worker: UST
RB Case Number: Not reported
Local Agency: SANTA CLARA COUNTY LOP
File Location: All Files are on GeoTracker or in the Local Agency Database
Local Case Number: Not reported
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0608500185
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

Global Id: T0608500185
Contact Type: Local Agency Caseworker
Contact Name: UST CASE WORKER
Organization Name: SANTA CLARA COUNTY LOP
Address: 1555 Berger Drive, Suite 300
City: SAN JOSE
Email: Not reported
Phone Number: 4089183400

LUST:
Global Id: T0608500185
Action Type: RESPONSE
Date: 12/02/1997
Action: Monitoring Report - Quarterly

Global Id: T0608500185
Action Type: RESPONSE
Date: 07/31/2000
Action: Monitoring Report - Quarterly

ARCO SERVICE STATION #6050 (Continued) **S100179328**

Global Id: T0608500185
Action Type: RESPONSE
Date: 10/31/2000
Action: Monitoring Report - Quarterly

Global Id: T0608500185
Action Type: RESPONSE
Date: 01/31/2001
Action: Monitoring Report - Quarterly

Global Id: T0608500185
Action Type: RESPONSE
Date: 09/30/2003
Action: Other Report / Document

Global Id: T0608500185
Action Type: RESPONSE
Date: 08/26/1997
Action: Monitoring Report - Quarterly

Global Id: T0608500185
Action Type: Other
Date: 07/22/1986
Action: Leak Reported

Global Id: T0608500185
Action Type: RESPONSE
Date: 05/15/2000
Action: Monitoring Report - Quarterly

Global Id: T0608500185
Action Type: RESPONSE
Date: 10/30/1999
Action: Monitoring Report - Quarterly

Global Id: T0608500185
Action Type: ENFORCEMENT
Date: 03/11/1988
Action: Notice of Responsibility - #40207

Global Id: T0608500185
Action Type: ENFORCEMENT
Date: 03/24/2000
Action: Staff Letter - #30483

Global Id: T0608500185
Action Type: ENFORCEMENT
Date: 06/04/1999
Action: Staff Letter - #30480

Global Id: T0608500185
Action Type: ENFORCEMENT
Date: 08/20/1997
Action: Staff Letter - #30473

Global Id: T0608500185
Action Type: REMEDIATION

ARCO SERVICE STATION #6050 (Continued) **S100179328**

Date: 05/17/1988
Action: Excavation

Global Id: T0608500185
Action Type: ENFORCEMENT
Date: 06/27/2013
Action: Deed Restriction / Land Use Restriction / Covenant

Global Id: T0608500185
Action Type: ENFORCEMENT
Date: 07/26/2004
Action: Closure/No Further Action Letter

Global Id: T0608500185
Action Type: RESPONSE
Date: 05/20/2004
Action: Well Destruction Report

Global Id: T0608500185
Action Type: RESPONSE
Date: 11/20/2014
Action: Well Destruction Report

Global Id: T0608500185
Action Type: RESPONSE
Date: 08/29/2003
Action: Monitoring Report - Quarterly

Global Id: T0608500185
Action Type: RESPONSE
Date: 08/20/1987
Action: Other Workplan

Global Id: T0608500185
Action Type: RESPONSE
Date: 03/29/1989
Action: Proposed Plan

Global Id: T0608500185
Action Type: RESPONSE
Date: 06/27/1988
Action: Other Workplan

Global Id: T0608500185
Action Type: RESPONSE
Date: 12/12/2002
Action: Tank Removal Report / UST Sampling Report

Global Id: T0608500185
Action Type: RESPONSE
Date: 01/31/1989
Action: Other Report / Document

Global Id: T0608500185
Action Type: RESPONSE
Date: 01/03/1992
Action: Other Report / Document

ARCO SERVICE STATION #6050 (Continued) **S100179328**

Global Id: T0608500185
Action Type: RESPONSE
Date: 06/06/1991
Action: Other Report / Document

Global Id: T0608500185
Action Type: RESPONSE
Date: 11/30/1998
Action: Soil and Water Investigation Report

Global Id: T0608500185
Action Type: RESPONSE
Date: 09/04/2004
Action: Correspondence

Global Id: T0608500185
Action Type: RESPONSE
Date: 05/22/2002
Action: Verbal Communication

Global Id: T0608500185
Action Type: RESPONSE
Date: 06/08/1988
Action: Correspondence

Global Id: T0608500185
Action Type: ENFORCEMENT
Date: 04/15/2014
Action: Staff Letter

Global Id: T0608500185
Action Type: RESPONSE
Date: 10/31/1997
Action: Soil and Water Investigation Workplan - Addendum

Global Id: T0608500185
Action Type: RESPONSE
Date: 09/18/1989
Action: Preliminary Site Assessment Report

Global Id: T0608500185
Action Type: RESPONSE
Date: 04/13/1993
Action: Other Workplan

Global Id: T0608500185
Action Type: RESPONSE
Date: 07/10/1993
Action: Other Report / Document

Global Id: T0608500185
Action Type: RESPONSE
Date: 08/29/2003
Action: Monitoring Report - Quarterly

Global Id: T0608500185
Action Type: RESPONSE

ARCO SERVICE STATION #6050 (Continued) **S100179328**

Date: 01/31/1994
Action: CAP/RAP - Feasibility Study Report

Global Id: T0608500185
Action Type: RESPONSE
Date: 09/30/2003
Action: Other Report / Document

Global Id: T0608500185
Action Type: RESPONSE
Date: 05/22/1992
Action: Unauthorized Release Form

Global Id: T0608500185
Action Type: ENFORCEMENT
Date: 11/26/1997
Action: Staff Letter - #30475

Global Id: T0608500185
Action Type: ENFORCEMENT
Date: 06/12/2003
Action: Staff Letter - #41543

LUST:
Global Id: T0608500185
Status: Completed - Case Closed
Status Date: 07/26/2004

Global Id: T0608500185
Status: Open - Case Begin Date
Status Date: 07/22/1986

Global Id: T0608500185
Status: Open - Site Assessment
Status Date: 09/02/1987

Global Id: T0608500185
Status: Open - Site Assessment
Status Date: 06/14/1988

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 06S2W16R01F
Date Closed: 07/26/2004
EDR Link ID: 06S2W16R01F

DEED:
Envirostor ID: T0608500185
Area: Not reported
Sub Area: Not reported
Site Type: LUFT
Status: COMPLETED - CASE CLOSED
Agency: SWRCB
Covenant Uploaded: Y
Deed Date(s): 06/27/2013

ARCO SERVICE STATION #6050 (Continued) **S100179328**

File Name: Geotracker Land Use/Deed Restrictions

NOTIFY 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Issue Date: Not reported
Incident Description: Not reported

CERS TANKS:
Site ID: 253616
CERS ID: T0608500185
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: UST CASE WORKER - SANTA CLARA COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: SAN JOSE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 4089183400

Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Q130 **ARCO #6050** **CA CUPA Listings** **S121469062**
SSW **790 N SHORELINE BL** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.182 mi.
962 ft. **Site 3 of 8 in cluster Q**

Relative:
Higher

Actual:
44 ft.

CUPA SANTA CLARA:
Facility Name: ARCO #6050
Region: SANTA CLARA
PE#: 2205
Program Description: GENERATES 100 KG YR TO <5 TONS/YR
Latitude: 37.405795
Longitude: -122.078244
Record ID: PR0313899
Facility ID: FA0204277

Q131
SSW
1/8-1/4
0.182 mi.
962 ft.

MOUNTAIN VIEW ARCO
790 SHORELINE BLVD. NORTH
MOUNTAIN VIEW, CA 94043

CA CERS HAZ WASTE
CA CERS TANKS
CA CERS

S121786972
N/A

Site 4 of 8 in cluster Q

Relative:
Higher

Actual:
44 ft.

CERS HAZ WASTE:

Site ID:	50370
CERS ID:	10355734
CERS Description:	Hazardous Waste Generator

Violations:

Site ID:	50370
Site Name:	Mountain View Arco
Violation Date:	01-15-2014
Citation:	23 CCR 16 2636(f)(1) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(1)
Violation Description:	Failure of the double wall pressurized piping in the turbine sump to be continuously monitored with a system that activates an audible and visual alarm or restricts or stops flow at dispenser when a leak is detected.
Violation Notes:	Returned to compliance on 02/11/2014.
Violation Division:	Mountain View Fire Department
Violation Program:	UST
Violation Source:	CERS

Site ID:	50370
Site Name:	Mountain View Arco
Violation Date:	01-14-2016
Citation:	23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description:	Failure to maintain leak detection alarm logs and/or maintain records of appropriate follow-up actions
Violation Notes:	Returned to compliance on 02/04/2016. Find old daily logs.
Violation Division:	Mountain View Fire Department
Violation Program:	UST
Violation Source:	CERS

Site ID:	50370
Site Name:	Mountain View Arco
Violation Date:	01-16-2018
Citation:	HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2
Violation Description:	Failure to test the spill bucket annually.
Violation Notes:	Returned to compliance on 05/25/2018. The following spill buckets failed the annual test: 87 Master and 91. All buckets are the old Phil-Tite spill buckets which are only 3.5 gallon buckets. With the extender some of them are 5 gallons but not the 91 bucket.
Violation Division:	Mountain View Fire Department
Violation Program:	UST
Violation Source:	CERS

Site ID:	50370
Site Name:	Mountain View Arco
Violation Date:	01-15-2015
Citation:	23 CCR 16 2632, 2634, 2636, 2666 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632, 2634, 2636, 2666
Violation Description:	Failure of the leak detection equipment to have an audible and visual alarm as required.
Violation Notes:	Returned to compliance on 03/02/2015.

MOUNTAIN VIEW ARCO (Continued) **S121786972**

Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 50370
Site Name: Mountain View Arco
Violation Date: 01-16-2018
Citation: HSC 6.7 25292.1(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25292.1(a)
Violation Description: Failure to operate the UST system to prevent unauthorized releases including leaks, spills, and/or overfills.
Violation Notes: Returned to compliance on 05/25/2018. Investigate unknown object (yellow tube) in 87 Master and 91 annular space.
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 50370
Site Name: Mountain View Arco
Violation Date: 01-04-2017
Citation: 23 CCR 16 2715(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(f)
Violation Description: Failure to have at least one employee present during operating hours that has been trained in the proper operation and maintenance of the UST system by a designated operator (DO).
Violation Notes: Returned to compliance on 01/31/2017. Location: Annual employee training due now
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 50370
Site Name: Mountain View Arco
Violation Date: 01-15-2014
Citation: 23 CCR 16 2715(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(f)
Violation Description: Failure to comply with one or more of the following: provide training to facility employee(s) responsible for proper operation and maintenance every 12 months and/or train new employee(s) who are responsible for proper operation and maintenance within 30-days of hire and/or to have at least one employee present during operating hours that has been trained in the proper operation and maintenance of the UST system.
Violation Notes: Returned to compliance on 02/11/2014.
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 50370
Site Name: Mountain View Arco
Violation Date: 01-14-2016
Citation: 23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description: The owner/operator has failed to comply with one or more of the following: to maintain a copy of the designated operator monthly inspections for the last 12 months and/or maintain a list of trained employees on-site or off-site at a readily available location, if

MOUNTAIN VIEW ARCO (Continued) **S121786972**

approved by the CUPA.
Violation Notes: Returned to compliance on 02/04/2016. Locate current reports.
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 50370
Site Name: Mountain View Arco
Violation Date: 01-15-2014
Citation: 23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description: Failure to maintain leak detection alarm logs and/or maintain records of appropriate follow-up actions.
Violation Notes: Returned to compliance on 02/11/2014.
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 50370
Site Name: Mountain View Arco
Violation Date: 01-15-2014
Citation: 23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description: The owner/operator has failed to comply with one or more of the following: to maintain a copy of the designated operator monthly inspections for the last 12 months and/or maintain a list of trained employees on-site or off-site at a readily available location, if approved by the CUPA.
Violation Notes: Returned to compliance on 02/11/2014.
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 50370
Site Name: Mountain View Arco
Violation Date: 01-16-2018
Citation: 23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(j)
Violation Description: Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly.
Violation Notes: Returned to compliance on 05/25/2018. The waste oil annular space sensor is not functioning. Repair or replace waste oil tank annular space sensor.
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 50370
Site Name: Mountain View Arco
Violation Date: 01-14-2016
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 02/04/2016. Provide documentation.

MOUNTAIN VIEW ARCO (Continued) **S121786972**

Violation Division: Mountain View Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 50370
Site Name: Mountain View Arco
Violation Date: 01-15-2014
Citation: 23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description: Failure to comply with one or more of the designated operator monthly inspection requirements: failed to inspect the monthly alarm history report; attach a copy of the alarm history; failed to inspect for the presence of liquid or debris in the spill container/spill bucket and under dispenser containment; failed to inspect the under dispenser containment to ensure that monitoring equipment is placed in the proper position; failure to inspect for liquid or debris in the containment sump where an alarm occurred or for which there is no record of a service visit; or failure to check that all testing and maintenance has been completed and documented.
Violation Notes: Returned to compliance on 02/11/2014.
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 50370
Site Name: Mountain View Arco
Violation Date: 01-15-2015
Citation: 23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description: The owner/operator has failed to comply with one or more of the following: to maintain a copy of the designated operator monthly inspections for the last 12 months and/or maintain a list of trained employees on-site or off-site at a readily available location, if approved by the CUPA.
Violation Notes: Returned to compliance on 03/02/2015.
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-04-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-15-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

MOUNTAIN VIEW ARCO (Continued) **S121786972**

Eval General Type:	Other/Unknown
Eval Date:	01-31-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	All violations corrected
Eval Division:	Mountain View Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-14-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-04-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	All violations corrected.
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-27-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-19-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite for routine inspection, noted the following: -Storage containers for hazardous waste solids and liquids are in good condition with labels. -Manifests are available for review -Cashier on duty appeared to be familiar with emergency equipment use No violations were noted today, thank you.
Eval Division:	Santa Clara County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-04-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

MOUNTAIN VIEW ARCO (Continued) **S121786972**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-14-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-15-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-15-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-16-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No Violations
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-04-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: All violations corrected.
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

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: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-16-2018
Violations Found: Yes

MOUNTAIN VIEW ARCO (Continued) **S121786972**

Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-11-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-02-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-04-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-25-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-11-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Enforcement Action:
Site ID: 50370
Site Name: Mountain View Arco
Site Address: 790 SHORELINE BLVD. NORTH
Site City: MOUNTAIN VIEW
Site Zip: 94043

MOUNTAIN VIEW ARCO (Continued) **S121786972**

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: Mountain View Fire Department
Enf Action Program: UST
Enf Action Source: CERS

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: P.O. Box 70730
Affiliation City: Sunnyvale
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94086
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Ed Bozorghadad
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (408) 691-7971

Affiliation Type Desc: Parent Corporation
Entity Name: Mountain View
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: UST Tank Owner
Entity Name: HADAD PETROLEUM, INC.
Entity Title: Not reported
Affiliation Address: P.O. Box 70730
Affiliation City: Sunnyvale
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94086-0730
Affiliation Phone: (408) 736-2500

Affiliation Type Desc: CUPA District
Entity Name: Santa Clara County Environmental Health
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: San Jose
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95112-2716

MOUNTAIN VIEW ARCO (Continued) **S121786972**

Affiliation Phone:	(408) 918-3400
Affiliation Type Desc:	Property Owner
Entity Name:	Hadad Petroleum, Inc.
Entity Title:	Not reported
Affiliation Address:	P.O. Box 70730
Affiliation City:	Sunnyvale
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94086
Affiliation Phone:	(408) 736-2500
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	SHYAMLA GANAPATHY
Entity Title:	Office Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(408) 736-2500
Affiliation Type Desc:	UST Property Owner Name
Entity Name:	Hadad Petroleum, Inc.
Entity Title:	Not reported
Affiliation Address:	P.O. Box 70730
Affiliation City:	Sunnyvale
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94086-0730
Affiliation Phone:	(408) 736-2500
Affiliation Type Desc:	Environmental Contact
Entity Name:	SHYAMLA GANAPATHY
Entity Title:	Not reported
Affiliation Address:	P.O. Box 70730
Affiliation City:	Sunnyvale
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94086
Affiliation Phone:	(408) 736-2500
Affiliation Type Desc:	Legal Owner
Entity Name:	HADAD PETROLEUM, INC.
Entity Title:	Not reported
Affiliation Address:	P.O. Box 70730
Affiliation City:	Sunnyvale
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94086
Affiliation Phone:	(408) 736-2500
Affiliation Type Desc:	UST Tank Operator
Entity Name:	HADAD PETROLEUM, INC.
Entity Title:	Not reported
Affiliation Address:	P.O. Box 70730
Affiliation City:	Sunnyvale

MOUNTAIN VIEW ARCO (Continued) **S121786972**

Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94086-0730
Affiliation Phone: (408) 736-2500

CERS TANKS:
Site ID: 50370
CERS ID: 10355734
CERS Description: Underground Storage Tank

Violations:
Site ID: 50370
Site Name: Mountain View Arco
Violation Date: 01-15-2014
Citation: 23 CCR 16 2636(f)(1) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(1)
Violation Description: Failure of the double wall pressurized piping in the turbine sump to be continuously monitored with a system that activates an audible and visual alarm or restricts or stops flow at dispenser when a leak is detected.
Violation Notes: Returned to compliance on 02/11/2014.
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 50370
Site Name: Mountain View Arco
Violation Date: 01-14-2016
Citation: 23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description: Failure to maintain leak detection alarm logs and/or maintain records of appropriate follow-up actions
Violation Notes: Returned to compliance on 02/04/2016. Find old daily logs.
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 50370
Site Name: Mountain View Arco
Violation Date: 01-16-2018
Citation: HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2
Violation Description: Failure to test the spill bucket annually.
Violation Notes: Returned to compliance on 05/25/2018. The following spill buckets failed the annual test: 87 Master and 91. All buckets are the old Phil-Tite spill buckets which are only 3.5 gallon buckets. With the extender some of them are 5 gallons but not the 91 bucket.
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 50370
Site Name: Mountain View Arco
Violation Date: 01-15-2015
Citation: 23 CCR 16 2632, 2634, 2636, 2666 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632, 2634, 2636, 2666

MOUNTAIN VIEW ARCO (Continued) **S121786972**

Violation Description: Failure of the leak detection equipment to have an audible and visual alarm as required.
Violation Notes: Returned to compliance on 03/02/2015.
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 50370
Site Name: Mountain View Arco
Violation Date: 01-16-2018
Citation: HSC 6.7 25292.1(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25292.1(a)
Violation Description: Failure to operate the UST system to prevent unauthorized releases including leaks, spills, and/or overfills.
Violation Notes: Returned to compliance on 05/25/2018. Investigate unknown object (yellow tube) in 87 Master and 91 annular space.
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 50370
Site Name: Mountain View Arco
Violation Date: 01-04-2017
Citation: 23 CCR 16 2715(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(f)
Violation Description: Failure to have at least one employee present during operating hours that has been trained in the proper operation and maintenance of the UST system by a designated operator (DO).
Violation Notes: Returned to compliance on 01/31/2017. Location: Annual employee training due now
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 50370
Site Name: Mountain View Arco
Violation Date: 01-15-2014
Citation: 23 CCR 16 2715(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(f)
Violation Description: Failure to comply with one or more of the following: provide training to facility employee(s) responsible for proper operation and maintenance every 12 months and/or train new employee(s) who are responsible for proper operation and maintenance within 30-days of hire and/or to have at least one employee present during operating hours that has been trained in the proper operation and maintenance of the UST system.
Violation Notes: Returned to compliance on 02/11/2014.
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 50370
Site Name: Mountain View Arco
Violation Date: 01-14-2016
Citation: 23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description: The owner/operator has failed to comply with one or more of the

MOUNTAIN VIEW ARCO (Continued) **S121786972**

following: to maintain a copy of the designated operator monthly inspections for the last 12 months and/or maintain a list of trained employees on-site or off-site at a readily available location, if approved by the CUPA.
Violation Notes: Returned to compliance on 02/04/2016. Locate current reports.
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 50370
Site Name: Mountain View Arco
Violation Date: 01-15-2014
Citation: 23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description: Failure to maintain leak detection alarm logs and/or maintain records of appropriate follow-up actions.
Violation Notes: Returned to compliance on 02/11/2014.
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 50370
Site Name: Mountain View Arco
Violation Date: 01-15-2014
Citation: 23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description: The owner/operator has failed to comply with one or more of the following: to maintain a copy of the designated operator monthly inspections for the last 12 months and/or maintain a list of trained employees on-site or off-site at a readily available location, if approved by the CUPA.
Violation Notes: Returned to compliance on 02/11/2014.
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 50370
Site Name: Mountain View Arco
Violation Date: 01-16-2018
Citation: 23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(j)
Violation Description: Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly.
Violation Notes: Returned to compliance on 05/25/2018. The waste oil annular space sensor is not functioning. Repair or replace waste oil tank annular space sensor.
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 50370
Site Name: Mountain View Arco
Violation Date: 01-14-2016
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a

MOUNTAIN VIEW ARCO (Continued) **S121786972**

hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 02/04/2016. Provide documentation.
Violation Division: Mountain View Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 50370
Site Name: Mountain View Arco
Violation Date: 01-15-2014
Citation: 23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description: Failure to comply with one or more of the designated operator monthly inspection requirements: failed to inspect the monthly alarm history report; attach a copy of the alarm history; failed to inspect for the presence of liquid or debris in the spill container/spill bucket and under dispenser containment; failed to inspect the under dispenser containment to ensure that monitoring equipment is placed in the proper position; failure to inspect for liquid or debris in the containment sump where an alarm occurred or for which there is no record of a service visit; or failure to check that all testing and maintenance has been completed and documented.
Violation Notes: Returned to compliance on 02/11/2014.
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 50370
Site Name: Mountain View Arco
Violation Date: 01-15-2015
Citation: 23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description: The owner/operator has failed to comply with one or more of the following: to maintain a copy of the designated operator monthly inspections for the last 12 months and/or maintain a list of trained employees on-site or off-site at a readily available location, if approved by the CUPA.
Violation Notes: Returned to compliance on 03/02/2015.
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-04-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-15-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported

MOUNTAIN VIEW ARCO (Continued) **S121786972**

Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-31-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	All violations corrected
Eval Division:	Mountain View Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-14-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-04-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	All violations corrected.
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-27-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-19-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite for routine inspection, noted the following: -Storage containers for hazardous waste solids and liquids are in good condition with labels. -Manifests are available for review -Cashier on duty appeared to be familiar with emergency equipment use No violations were noted today, thank you.
Eval Division:	Santa Clara County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-04-2017
Violations Found:	No
Eval Type:	Routine done by local agency

MOUNTAIN VIEW ARCO (Continued) **S121786972**

Eval Notes: No violations
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-14-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-15-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-15-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-16-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No Violations
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-04-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: All violations corrected.
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

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: Mountain View Fire Department
Eval Program: UST

MOUNTAIN VIEW ARCO (Continued) **S121786972**

Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-16-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-11-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-02-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-04-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-25-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-11-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

MOUNTAIN VIEW ARCO (Continued) **S121786972**

Enforcement Action:

Site ID:	50370
Site Name:	Mountain View Arco
Site Address:	790 SHORELINE BLVD. NORTH
Site City:	MOUNTAIN VIEW
Site Zip:	94043
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:	Mountain View Fire Department
Enf Action Program:	UST
Enf Action Source:	CERS

Affiliation:

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	P.O. Box 70730
Affiliation City:	Sunnyvale
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94086
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Ed Bozorghadad
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(408) 691-7971

Affiliation Type Desc:	Parent Corporation
Entity Name:	Mountain View
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	UST Tank Owner
Entity Name:	HADAD PETROLEUM, INC.
Entity Title:	Not reported
Affiliation Address:	P.O. Box 70730
Affiliation City:	Sunnyvale
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94086-0730
Affiliation Phone:	(408) 736-2500

Affiliation Type Desc:	CUPA District

MOUNTAIN VIEW ARCO (Continued) **S121786972**

Entity Name: Santa Clara County Environmental Health
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: San Jose
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95112-2716
Affiliation Phone: (408) 918-3400

Affiliation Type Desc: Property Owner
Entity Name: Hadad Petroleum, Inc.
Entity Title: Not reported
Affiliation Address: P.O. Box 70730
Affiliation City: Sunnyvale
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94086
Affiliation Phone: (408) 736-2500

Affiliation Type Desc: UST Permit Applicant
Entity Name: SHYAMLA GANAPATHY
Entity Title: Office Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (408) 736-2500

Affiliation Type Desc: UST Property Owner Name
Entity Name: Hadad Petroleum, Inc.
Entity Title: Not reported
Affiliation Address: P.O. Box 70730
Affiliation City: Sunnyvale
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94086-0730
Affiliation Phone: (408) 736-2500

Affiliation Type Desc: Environmental Contact
Entity Name: SHYAMLA GANAPATHY
Entity Title: Not reported
Affiliation Address: P.O. Box 70730
Affiliation City: Sunnyvale
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94086
Affiliation Phone: (408) 736-2500

Affiliation Type Desc: Legal Owner
Entity Name: HADAD PETROLEUM, INC.
Entity Title: Not reported
Affiliation Address: P.O. Box 70730
Affiliation City: Sunnyvale
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94086

MOUNTAIN VIEW ARCO (Continued) **S121786972**

Affiliation Phone: (408) 736-2500

Affiliation Type Desc: UST Tank Operator
Entity Name: HADAD PETROLEUM, INC.
Entity Title: Not reported
Affiliation Address: P.O. Box 70730
Affiliation City: Sunnyvale
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94086-0730
Affiliation Phone: (408) 736-2500

CERS TANKS:
Site ID: 50370
CERS ID: 10355734
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 50370
Site Name: Mountain View Arco
Violation Date: 01-15-2014
Citation: 23 CCR 16 2636(f)(1) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(1)
Violation Description: Failure of the double wall pressurized piping in the turbine sump to be continuously monitored with a system that activates an audible and visual alarm or restricts or stops flow at dispenser when a leak is detected.
Violation Notes: Returned to compliance on 02/11/2014.
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 50370
Site Name: Mountain View Arco
Violation Date: 01-14-2016
Citation: 23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description: Failure to maintain leak detection alarm logs and/or maintain records of appropriate follow-up actions
Violation Notes: Returned to compliance on 02/04/2016. Find old daily logs.
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 50370
Site Name: Mountain View Arco
Violation Date: 01-16-2018
Citation: HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2
Violation Description: Failure to test the spill bucket annually.
Violation Notes: Returned to compliance on 05/25/2018. The following spill buckets failed the annual test: 87 Master and 91. All buckets are the old Phil-Tite spill buckets which are only 3.5 gallon buckets. With the extender some of them are 5 gallons but not the 91 bucket.
Violation Division: Mountain View Fire Department
Violation Program: UST

MOUNTAIN VIEW ARCO (Continued) **S121786972**

Violation Source: CERS

Site ID: 50370
Site Name: Mountain View Arco
Violation Date: 01-15-2015
Citation: 23 CCR 16 2632, 2634, 2636, 2666 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632, 2634, 2636, 2666
Violation Description: Failure of the leak detection equipment to have an audible and visual alarm as required.
Violation Notes: Returned to compliance on 03/02/2015.
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 50370
Site Name: Mountain View Arco
Violation Date: 01-16-2018
Citation: HSC 6.7 25292.1(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25292.1(a)
Violation Description: Failure to operate the UST system to prevent unauthorized releases including leaks, spills, and/or overfills.
Violation Notes: Returned to compliance on 05/25/2018. Investigate unknown object (yellow tube) in 87 Master and 91 annular space.
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 50370
Site Name: Mountain View Arco
Violation Date: 01-04-2017
Citation: 23 CCR 16 2715(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(f)
Violation Description: Failure to have at least one employee present during operating hours that has been trained in the proper operation and maintenance of the UST system by a designated operator (DO).
Violation Notes: Returned to compliance on 01/31/2017. Location: Annual employee training due now
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 50370
Site Name: Mountain View Arco
Violation Date: 01-15-2014
Citation: 23 CCR 16 2715(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(f)
Violation Description: Failure to comply with one or more of the following: provide training to facility employee(s) responsible for proper operation and maintenance every 12 months and/or train new employee(s) who are responsible for proper operation and maintenance within 30-days of hire and/or to have at least one employee present during operating hours that has been trained in the proper operation and maintenance of the UST system.
Violation Notes: Returned to compliance on 02/11/2014.
Violation Division: Mountain View Fire Department
Violation Program: UST
Violation Source: CERS

MOUNTAIN VIEW ARCO (Continued) **S121786972**

Site ID:	50370
Site Name:	Mountain View Arco
Violation Date:	01-14-2016
Citation:	23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description:	The owner/operator has failed to comply with one or more of the following: to maintain a copy of the designated operator monthly inspections for the last 12 months and/or maintain a list of trained employees on-site or off-site at a readily available location, if approved by the CUPA.
Violation Notes:	Returned to compliance on 02/04/2016. Locate current reports.
Violation Division:	Mountain View Fire Department
Violation Program:	UST
Violation Source:	CERS

Site ID:	50370
Site Name:	Mountain View Arco
Violation Date:	01-15-2014
Citation:	23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description:	Failure to maintain leak detection alarm logs and/or maintain records of appropriate follow-up actions.
Violation Notes:	Returned to compliance on 02/11/2014.
Violation Division:	Mountain View Fire Department
Violation Program:	UST
Violation Source:	CERS

Site ID:	50370
Site Name:	Mountain View Arco
Violation Date:	01-15-2014
Citation:	23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description:	The owner/operator has failed to comply with one or more of the following: to maintain a copy of the designated operator monthly inspections for the last 12 months and/or maintain a list of trained employees on-site or off-site at a readily available location, if approved by the CUPA.
Violation Notes:	Returned to compliance on 02/11/2014.
Violation Division:	Mountain View Fire Department
Violation Program:	UST
Violation Source:	CERS

Site ID:	50370
Site Name:	Mountain View Arco
Violation Date:	01-16-2018
Citation:	23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(j)
Violation Description:	Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly.
Violation Notes:	Returned to compliance on 05/25/2018. The waste oil annular space sensor is not functioning. Repair or replace waste oil tank annular space sensor.
Violation Division:	Mountain View Fire Department
Violation Program:	UST
Violation Source:	CERS

Site ID:	50370

MOUNTAIN VIEW ARCO (Continued) **S121786972**

Site Name:	Mountain View Arco
Violation Date:	01-14-2016
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	Returned to compliance on 02/04/2016. Provide documentation.
Violation Division:	Mountain View Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	50370
Site Name:	Mountain View Arco
Violation Date:	01-15-2014
Citation:	23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description:	Failure to comply with one or more of the designated operator monthly inspection requirements: failed to inspect the monthly alarm history report; attach a copy of the alarm history; failed to inspect for the presence of liquid or debris in the spill container/spill bucket and under dispenser containment; failed to inspect the under dispenser containment to ensure that monitoring equipment is placed in the proper position; failure to inspect for liquid or debris in the containment sump where an alarm occurred or for which there is no record of a service visit; or failure to check that all testing and maintenance has been completed and documented.
Violation Notes:	Returned to compliance on 02/11/2014.
Violation Division:	Mountain View Fire Department
Violation Program:	UST
Violation Source:	CERS

Site ID:	50370
Site Name:	Mountain View Arco
Violation Date:	01-15-2015
Citation:	23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description:	The owner/operator has failed to comply with one or more of the following: to maintain a copy of the designated operator monthly inspections for the last 12 months and/or maintain a list of trained employees on-site or off-site at a readily available location, if approved by the CUPA.
Violation Notes:	Returned to compliance on 03/02/2015.
Violation Division:	Mountain View Fire Department
Violation Program:	UST
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-04-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	UST
Eval Source:	CERS

MOUNTAIN VIEW ARCO (Continued) **S121786972**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-15-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	01-31-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	All violations corrected
Eval Division:	Mountain View Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-14-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	02-04-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	All violations corrected.
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	03-27-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-19-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite for routine inspection, noted the following: -Storage containers for hazardous waste solids and liquids are in good condition with labels. -Manifests are available for review -Cashier on duty appeared to be familiar with emergency equipment use No violations were noted today, thank you.
Eval Division:	Santa Clara County Environmental Health
Eval Program:	HW
Eval Source:	CERS

MOUNTAIN VIEW ARCO (Continued) **S121786972**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-04-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-14-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-15-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-15-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-16-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No Violations
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	02-04-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	All violations corrected.
Eval Division:	Mountain View Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-15-2014
Violations Found:	Yes

MOUNTAIN VIEW ARCO (Continued) **S121786972**

Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-16-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-11-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-02-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-04-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-25-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-11-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department

MOUNTAIN VIEW ARCO (Continued) **S121786972**

Eval Program: UST
Eval Source: CERS

Enforcement Action:
Site ID: 50370
Site Name: Mountain View Arco
Site Address: 790 SHORELINE BLVD. NORTH
Site City: MOUNTAIN VIEW
Site Zip: 94043
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: Mountain View Fire Department
Enf Action Program: UST
Enf Action Source: CERS

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: P.O. Box 70730
Affiliation City: Sunnyvale
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94086
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Ed Bozorghadad
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (408) 691-7971

Affiliation Type Desc: Parent Corporation
Entity Name: Mountain View
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: UST Tank Owner
Entity Name: HADAD PETROLEUM, INC.
Entity Title: Not reported
Affiliation Address: P.O. Box 70730
Affiliation City: Sunnyvale
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94086-0730

MOUNTAIN VIEW ARCO (Continued) **S121786972**

Affiliation Phone:	(408) 736-2500
Affiliation Type Desc:	CUPA District
Entity Name:	Santa Clara County Environmental Health
Entity Title:	Not reported
Affiliation Address:	1555 Berger Drive, Suite 300
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95112-2716
Affiliation Phone:	(408) 918-3400
Affiliation Type Desc:	Property Owner
Entity Name:	Hadad Petroleum, Inc.
Entity Title:	Not reported
Affiliation Address:	P.O. Box 70730
Affiliation City:	Sunnyvale
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94086
Affiliation Phone:	(408) 736-2500
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	SHYAMLA GANAPATHY
Entity Title:	Office Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(408) 736-2500
Affiliation Type Desc:	UST Property Owner Name
Entity Name:	Hadad Petroleum, Inc.
Entity Title:	Not reported
Affiliation Address:	P.O. Box 70730
Affiliation City:	Sunnyvale
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94086-0730
Affiliation Phone:	(408) 736-2500
Affiliation Type Desc:	Environmental Contact
Entity Name:	SHYAMLA GANAPATHY
Entity Title:	Not reported
Affiliation Address:	P.O. Box 70730
Affiliation City:	Sunnyvale
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94086
Affiliation Phone:	(408) 736-2500
Affiliation Type Desc:	Legal Owner
Entity Name:	HADAD PETROLEUM, INC.
Entity Title:	Not reported
Affiliation Address:	P.O. Box 70730
Affiliation City:	Sunnyvale

MOUNTAIN VIEW ARCO (Continued) **S121786972**

Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94086
Affiliation Phone:	(408) 736-2500
Affiliation Type Desc:	UST Tank Operator
Entity Name:	HADAD PETROLEUM, INC.
Entity Title:	Not reported
Affiliation Address:	P.O. Box 70730
Affiliation City:	Sunnyvale
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94086-0730
Affiliation Phone:	(408) 736-2500

Q132 **ARCO SMOG PROS STORE #06050** **CA UST** **U003779224**
SSW **790 N SHORELINE BLVD** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.182 mi.
962 ft. **Site 5 of 8 in cluster Q**

Relative: UST:
Higher

Facility ID:	1638
Permitting Agency:	MOUNTAIN VIEW, CITY OF
Latitude:	37.407488
Longitude:	-122.0769275

Actual:
44 ft.

Q133 **AUTOMOTIVE SERVICE CENTER** **RCRA-SQG** **1000335067**
SSW **790 N SHORELINE RD** **FINDS** **CAD982487811**
1/8-1/4 **MOUNTAIN VIEW, CA 94043** **ECHO**
0.182 mi. **CA HAZNET**
962 ft. **Site 6 of 8 in cluster Q**

Relative: RCRA-SQG:
Higher

Date form received by agency:	04/11/1990
Facility name:	AUTOMOTIVE SERVICE CENTER
Facility address:	790 N SHORELINE RD MOUNTAIN VIEW, CA 94043
EPA ID:	CAD982487811
Mailing address:	N SHORELINE RD MOUNTAIN VIEW, CA 94043
Contact:	ENVIRONMENTAL MANAGER
Contact address:	790 N SHORELINE RD MOUNTAIN VIEW, CA 94043
Contact country:	US
Contact telephone:	415-969-1075
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Actual:
44 ft.

AUTOMOTIVE SERVICE CENTER (Continued) **1000335067**

Owner/Operator Summary:
Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: BONAR DAVID MARTIN
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002828389

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource

AUTOMOTIVE SERVICE CENTER (Continued) **1000335067**

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:	1000335067
Registry ID:	110002828389
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002828389

HAZNET:

Facility Name:	AUTOMOTIVE SERVICE CENTER
envid:	1000335067
Year:	2008
GEPAID:	CAD982487811
Contact:	BARBARA BONAR
Telephone:	4159691075
Mailing Name:	Not reported
Mailing Address:	790 N SHORELINE BLVD
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 940433209
Gen County:	Not reported
TSD EPA ID:	NVD982358483
TSD County:	Not reported
Waste Category:	Waste oil and mixed oil
Disposal Method:	Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.95
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

envid:	1000335067
Year:	2006
GEPAID:	CAD982487811
Contact:	BARBARA BONAR
Telephone:	4159691075
Mailing Name:	Not reported
Mailing Address:	790 N SHORELINE BLVD
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 940433209
Gen County:	Not reported
TSD EPA ID:	CAD980884183
TSD County:	Not reported
Waste Category:	Off-specification, aged or surplus organics
Disposal Method:	Transfer Station
Tons:	0.06
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

envid:	1000335067
Year:	2006
GEPAID:	CAD982487811

AUTOMOTIVE SERVICE CENTER (Continued) **1000335067**

Contact:	BARBARA BONAR
Telephone:	4159691075
Mailing Name:	Not reported
Mailing Address:	790 N SHORELINE BLVD
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 940433209
Gen County:	Not reported
TSD EPA ID:	CAD980884183
TSD County:	Not reported
Waste Category:	Off-specification, aged or surplus organics
Disposal Method:	Transfer Station
Tons:	0.12
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

envid:	1000335067
Year:	2003
GEPAID:	CAD982487811
Contact:	BARBARA BONAR
Telephone:	4159691075
Mailing Name:	Not reported
Mailing Address:	790 N SHORELINE BLVD
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 940433209
Gen County:	Not reported
TSD EPA ID:	CAD053044053
TSD County:	Not reported
Waste Category:	Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method:	Transfer Station
Tons:	0.12
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

envid:	1000335067
Year:	1999
GEPAID:	CAD982487811
Contact:	AUTOMOTIVE POWER AND ENERGY
Telephone:	4159691075
Mailing Name:	Not reported
Mailing Address:	790 N SHORELINE BLVD
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 940433209
Gen County:	Not reported
TSD EPA ID:	CAD099452708
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Recycler
Tons:	.1459
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

Click this hyperlink while viewing on your computer to access
3 additional CA_HAZNET: record(s) in the EDR Site Report.

Q134
SSW
1/8-1/4
0.182 mi.
962 ft.

MOUNTAIN VIEW ARCO
790 SHORELINE BLVD. NORTH
MOUNTAIN VIEW, CA 94043

Site 7 of 8 in cluster Q

CA UST **U004261711**
N/A

Relative:
Higher

Actual:
44 ft.

UST:
Facility ID: 1390
Permitting Agency: Santa Clara County Environmental Health
Latitude: 37.40594
Longitude: -122.07848

Q135
SSW
1/8-1/4
0.182 mi.
962 ft.

ARCO #6050
790 SHORELINE BLVD
MOUNTAIN VIEW, CA 94043

Site 8 of 8 in cluster Q

CA LUST **S102424302**
CA HIST LUST **N/A**
CA HIST CORTESE

Relative:
Higher

Actual:
44 ft.

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 06S2W16R01f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 9/2/1987
Pollution Characterization Began: 6/14/1988
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 06S2W16R01
Oversite Agency: SCVWD
Date Listed: 1987-01-01 00:00:00
Closed Date: 2004-07-26 00:00:00

HIST CORTESE:
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-0117

P136 **EL CAMINO PAVING, INC.** **CA CUPA Listings** **S121469077**
SE **924 SAN RAFAEL AV** **CA HAZNET** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.185 mi.
976 ft. **Site 3 of 6 in cluster P**

Relative:
Higher

Actual:
42 ft.

CUPA SANTA CLARA:

Facility Name:	EL CAMINO PAVING, INC.
Region:	SANTA CLARA
PE#:	2205
Program Description:	GENERATES 100 KG YR TO <5 TONS/YR
Latitude:	37.406935
Longitude:	-122.073092
Record ID:	PR0313896
Facility ID:	FA0204339

Region:	SANTA CLARA
PE#:	2011
Program Description:	APSA FACILITY-SPCC TEMPLATE (<10,000 GAL CAP)
Latitude:	37.406935
Longitude:	-122.073092
Record ID:	PR0399568
Facility ID:	FA0204339

HAZNET:

Facility Name:	EL CAMINO PAVING
envid:	S121469077
Year:	2017
GEPAID:	CAC002909290
Contact:	STEPHANIE ALVA
Telephone:	4085519801
Mailing Name:	Not reported
Mailing Address:	924 SAN RAFAEL AVENUE
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 94043
Gen County:	San Bernardino
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	6.65115
Cat Decode:	Unspecified oil-containing waste
Method Decode:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	San Bernardino

envid:	S121469077
Year:	2017
GEPAID:	CAC002909290
Contact:	STEPHANIE ALVA
Telephone:	4085519801
Mailing Name:	Not reported
Mailing Address:	924 SAN RAFAEL AVENUE
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 94043
Gen County:	San Bernardino
TSD EPA ID:	NVT330010000
TSD County:	99
Waste Category:	Other organic solids
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration,

EL CAMINO PAVING, INC. (Continued) **S121469077**

	Organics Recovery Ect
Tons:	0.8
Cat Decode:	Other organic solids
Method Decode:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	San Bernardino
envid:	S121469077
Year:	2017
GEPAID:	CAC002909290
Contact:	STEPHANIE ALVA
Telephone:	4085519801
Mailing Name:	Not reported
Mailing Address:	924 SAN RAFAEL AVENUE
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 94043
Gen County:	San Bernardino
TSD EPA ID:	NVT330010000
TSD County:	99
Waste Category:	Off-specification, aged or surplus organics
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	1.8
Cat Decode:	Off-specification, aged or surplus organics
Method Decode:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	San Bernardino
envid:	S121469077
Year:	2017
GEPAID:	CAC002909290
Contact:	STEPHANIE ALVA
Telephone:	4085519801
Mailing Name:	Not reported
Mailing Address:	924 SAN RAFAEL AVENUE
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 94043
Gen County:	San Bernardino
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.935
Cat Decode:	Unspecified organic liquid mixture
Method Decode:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	San Bernardino

P137 **EL CAMINO PAVING** **CA LUST** **S101303752**
SE **924 SAN RAFAEL AVE** **CA HIST LUST** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043** **CA HIST CORTESE**
0.185 mi. **CA CERS**
976 ft. **Site 4 of 6 in cluster P**

Relative: LUST:
Higher

Lead Agency:	SANTA CLARA COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608500547
Global Id:	T0608500547

Actual:
42 ft.

EL CAMINO PAVING (Continued) **S101303752**

Latitude:	37.407144
Longitude:	-122.072367
Status:	Completed - Case Closed
Status Date:	03/14/2001
Case Worker:	UST
RB Case Number:	Not reported
Local Agency:	SANTA CLARA COUNTY LOP
File Location:	All Files are on GeoTracker or in the Local Agency Database
Local Case Number:	Not reported
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

LUST:

Global Id:	T0608500547
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

Global Id:	T0608500547
Contact Type:	Local Agency Caseworker
Contact Name:	UST CASE WORKER
Organization Name:	SANTA CLARA COUNTY LOP
Address:	1555 Berger Drive, Suite 300
City:	SAN JOSE
Email:	Not reported
Phone Number:	4089183400

LUST:

Global Id:	T0608500547
Action Type:	Other
Date:	06/29/1988
Action:	Leak Reported

Global Id:	T0608500547
Action Type:	ENFORCEMENT
Date:	05/31/1994
Action:	Referral to Regional Board - #43-0502

Global Id:	T0608500547
Action Type:	ENFORCEMENT
Date:	07/25/2000
Action:	Staff Letter - #30730

Global Id:	T0608500547
Action Type:	ENFORCEMENT
Date:	04/05/2000
Action:	Staff Letter - #30728

Global Id:	T0608500547
Action Type:	REMEDIATION
Date:	06/29/1988
Action:	Excavation

EL CAMINO PAVING (Continued) **S101303752**

Global Id: T0608500547
Action Type: RESPONSE
Date: 06/29/1988
Action: Unauthorized Release Form

Global Id: T0608500547
Action Type: RESPONSE
Date: 06/29/1988
Action: Unauthorized Release Form

Global Id: T0608500547
Action Type: RESPONSE
Date: 10/29/1992
Action: Monitoring Report - Quarterly

Global Id: T0608500547
Action Type: RESPONSE
Date: 10/13/2000
Action: Monitoring Report - Quarterly

Global Id: T0608500547
Action Type: RESPONSE
Date: 01/24/1992
Action: Monitoring Report - Quarterly

Global Id: T0608500547
Action Type: RESPONSE
Date: 06/24/1993
Action: Monitoring Report - Quarterly

Global Id: T0608500547
Action Type: RESPONSE
Date: 11/30/1993
Action: Other Report / Document

Global Id: T0608500547
Action Type: RESPONSE
Date: 08/27/1993
Action: Other Report / Document

Global Id: T0608500547
Action Type: RESPONSE
Date: 03/22/1996
Action: Monitoring Report - Quarterly

Global Id: T0608500547
Action Type: RESPONSE
Date: 11/14/1990
Action: Other Report / Document

Global Id: T0608500547
Action Type: RESPONSE
Date: 10/01/1996
Action: Proposed Plan

Global Id: T0608500547
Action Type: RESPONSE

EL CAMINO PAVING (Continued) **S101303752**

Date: 04/27/1994
Action: Soil and Water Investigation Workplan

Global Id: T0608500547
Action Type: RESPONSE
Date: 12/01/1992
Action: Soil and Water Investigation Workplan

Global Id: T0608500547
Action Type: RESPONSE
Date: 09/28/1993
Action: Monitoring Report - Quarterly

Global Id: T0608500547
Action Type: RESPONSE
Date: 07/07/2000
Action: Monitoring Report - Quarterly

Global Id: T0608500547
Action Type: ENFORCEMENT
Date: 03/14/2001
Action: Closure/No Further Action Letter

Global Id: T0608500547
Action Type: RESPONSE
Date: 07/01/1994
Action: Interim Remedial Action Report

Global Id: T0608500547
Action Type: RESPONSE
Date: 06/13/1986
Action: Other Report / Document

Global Id: T0608500547
Action Type: RESPONSE
Date: 10/29/1993
Action: Other Report / Document

Global Id: T0608500547
Action Type: RESPONSE
Date: 10/29/1990
Action: Other Workplan

Global Id: T0608500547
Action Type: RESPONSE
Date: 07/31/1995
Action: Verbal Communication

Global Id: T0608500547
Action Type: RESPONSE
Date: 11/09/1993
Action: Other Report / Document

Global Id: T0608500547
Action Type: RESPONSE
Date: 10/25/1991
Action: Monitoring Report - Quarterly

EL CAMINO PAVING (Continued) **S101303752**

Global Id: T0608500547
Action Type: RESPONSE
Date: 12/28/1993
Action: Monitoring Report - Quarterly

Global Id: T0608500547
Action Type: RESPONSE
Date: 06/13/1990
Action: Other Report / Document

Global Id: T0608500547
Action Type: RESPONSE
Date: 12/15/1993
Action: Other Report / Document

Global Id: T0608500547
Action Type: RESPONSE
Date: 04/24/2000
Action: Correspondence

Global Id: T0608500547
Action Type: RESPONSE
Date: 01/21/1999
Action: Correspondence

Global Id: T0608500547
Action Type: RESPONSE
Date: 07/30/1995
Action: Monitoring Report - Quarterly

Global Id: T0608500547
Action Type: RESPONSE
Date: 08/05/1991
Action: Monitoring Report - Quarterly

Global Id: T0608500547
Action Type: ENFORCEMENT
Date: 07/18/1994
Action: Referral to Local Agency - #43-0502

Global Id: T0608500547
Action Type: RESPONSE
Date: 10/15/2000
Action: Monitoring Report - Quarterly

Global Id: T0608500547
Action Type: RESPONSE
Date: 05/20/2000
Action: Monitoring Report - Quarterly

Global Id: T0608500547
Action Type: RESPONSE
Date: 12/30/1991
Action: Other Workplan

Global Id: T0608500547
Action Type: RESPONSE

EL CAMINO PAVING (Continued) **S101303752**

Date: 11/27/1991
Action: Other Report / Document

Global Id: T0608500547
Action Type: RESPONSE
Date: 03/18/1993
Action: Monitoring Report - Quarterly

Global Id: T0608500547
Action Type: RESPONSE
Date: 09/30/1995
Action: Monitoring Report - Quarterly

Global Id: T0608500547
Action Type: RESPONSE
Date: 03/28/1994
Action: Monitoring Report - Quarterly

Global Id: T0608500547
Action Type: RESPONSE
Date: 06/16/1989
Action: Tank Removal Report / UST Sampling Report

Global Id: T0608500547
Action Type: RESPONSE
Date: 10/10/1988
Action: Unauthorized Release Form

Global Id: T0608500547
Action Type: RESPONSE
Date: 01/16/1992
Action: Other Report / Document

Global Id: T0608500547
Action Type: RESPONSE
Date: 05/28/1993
Action: Other Report / Document

Global Id: T0608500547
Action Type: ENFORCEMENT
Date: 03/05/1993
Action: Notice of Violation - #40184

LUST:
Global Id: T0608500547
Status: Completed - Case Closed
Status Date: 03/14/2001

Global Id: T0608500547
Status: Open - Case Begin Date
Status Date: 06/29/1988

Global Id: T0608500547
Status: Open - Site Assessment
Status Date: 08/19/1988

Global Id: T0608500547

EL CAMINO PAVING (Continued) **S101303752**

Status: Open - Verification Monitoring
Status Date: 06/29/1988

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 06S2W15L01f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 8/19/1988
Pollution Characterization Began: 8/19/1988
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: 6/29/1988

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 06S2W15L01F
Date Closed: 03/14/2001
EDR Link ID: 06S2W15L01F

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 06S2W15L01
Oversite Agency: SCVWD
Date Listed: 1989-01-01 00:00:00
Closed Date: 2001-03-14 00:00:00

HIST CORTESE:
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-0502

CERS TANKS:
Site ID: 231514
CERS ID: T0608500547
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported

EL CAMINO PAVING (Continued) **S101303752**

Affiliation Phone:	Not reported
Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	UST CASE WORKER - SANTA CLARA COUNTY LOP
Entity Title:	Not reported
Affiliation Address:	1555 Berger Drive, Suite 300
Affiliation City:	SAN JOSE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	4089183400

P138 **EL CAMINO PAVING, INC.** **CA AST** **A100419741**
SE **924 SAN RAFAEL AVENUE** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.185 mi.
976 ft. **Site 5 of 6 in cluster P**

Relative:
Higher

Actual:
42 ft.

AST:

Certified Unified Program Agencies:	Not reported
Owner:	Marie S. Alva
Total Gallons:	Not reported
CERSID:	10356493
Facility ID:	722
Business Name:	El Camino Paving, Inc.
Phone:	650-965-7283
Fax:	6509657357
Mailing Address:	P.O. Box 62319
Mailing Address City:	Sunnyvale
Mailing Address State:	CA
Mailing Address Zip Code:	94088
Operator Name:	Marie Alva
Operator Phone:	650-965-7283
Owner Phone:	650-965-7283
Owner Mail Address:	P.O. Box 62319
Owner State:	CA
Owner Zip Code:	94088
Owner Country:	United States
Property Owner Name:	Marie Alva
Property Owner Phone:	650-965-7283
Property Owner Mailing Address:	P.O. Box 62319
Property Owner City:	Sunnyvale
Property Owner Stat :	CA
Property Owner Zip Code:	94088
Property Owner Country:	United States
EPAID:	CAC000045158

P139 **EL CAMINO PAVING** **CA AST** **A100339209**
SE **924 SAN RAFAEL AVENUE** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA**
0.185 mi.
976 ft. **Site 6 of 6 in cluster P**

Relative: **Higher**
Actual: **42 ft.**

AST:

Certified Unified Program Agencies:	Santa Clara County
Owner:	EL CAMINO PAVING INC
Total Gallons:	2,155
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported
Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

R140 **SPECTRA PHYSICS OPTICS CORP** **RCRA NonGen / NLR** **1000473093**
WSW **1330/1340 WEST MIDDLEFIELD RD** **CAD982445504**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.185 mi.
979 ft. **Site 1 of 3 in cluster R**

Relative: **Higher**
Actual: **39 ft.**

RCRA NonGen / NLR:

Date form received by agency:	10/27/1992
Facility name:	SPECTRA PHYSICS OPTICS CORP
Site name:	SPECTRA-PHYSICS OPTICS CORP.
Facility address:	1330/1340 WEST MIDDLEFIELD RD MOUNTAIN VIEW, CA 94043-0000
EPA ID:	CAD982445504
Mailing address:	1335 TERRA BELLA AVENUE MOUNTAIN VIEW, CA 94043-0000
Contact:	MICHAEL BERTELLI
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	415-961-2550
Telephone ext.:	2722
Contact email:	Not reported
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

SPECTRA PHYSICS OPTICS CORP (Continued) **1000473093**

Owner/Operator Summary:
- Owner/operator name: NOT REQUIRED
- Owner/operator address: NOT REQUIRED
  NOT REQUIRED, ME 99999
- Owner/operator country: Not reported
- Owner/operator telephone: 415-555-1212
- Owner/operator email: Not reported
- Owner/operator fax: Not reported
- Owner/operator extension: Not reported
- Legal status: Private
- Owner/Operator Type: Operator
- Owner/Op start date: Not reported
- Owner/Op end date: Not reported

- Owner/operator name: PHAROS AB
- Owner/operator address: NOT REQUIRED
  NOT REQUIRED, ME 99999
- Owner/operator country: Not reported
- Owner/operator telephone: 415-555-1212
- Owner/operator email: Not reported
- Owner/operator fax: Not reported
- Owner/operator extension: Not reported
- Legal status: Private
- Owner/Operator Type: Owner
- Owner/Op start date: Not reported
- Owner/Op end date: Not reported

Handler Activities Summary:
- U.S. importer of hazardous waste: No
- Mixed waste (haz. and radioactive): No
- Recycler of hazardous waste: No
- Transporter of hazardous waste: No
- Treater, storer or disposer of HW: No
- Underground injection activity: No
- On-site burner exemption: No
- Furnace exemption: No
- Used oil fuel burner: No
- Used oil processor: No
- User oil refiner: No
- Used oil fuel marketer to burner: No
- Used oil Specification marketer: No
- Used oil transfer facility: No
- Used oil transporter: No

Historical Generators:
- Date form received by agency: 01/10/1991
- Site name: SPECTRA PHYSICS OPTICS CORP
- Classification: Not a generator, verified

- Violation Status: No violations found

S141 **WL LARSEN INC** **CA HIST UST** **S118417168**
NNE **1345 L AVENIDA AVE** **N/A**
1/8-1/4 **MT VIEW, CA 94043**
0.190 mi.
1003 ft. **Site 1 of 8 in cluster S**

Relative: HIST UST:
Lower

Actual:
27 ft.

File Number:	00020A8D
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00020A8D.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:

S142 **W.L. LARSEN INC.** **CA HIST UST** **U001594424**
NNE **1345 LAVENIDA ST** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.190 mi.
1003 ft. **Site 2 of 8 in cluster S**

Relative: HIST UST:
Lower

Actual:
27 ft.

File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000064295
Facility Type:	Other
Other Type:	Not reported
Contact Name:	WALTER L. LARSEN
Telephone:	4159610536
Owner Name:	W.L. LARSEN INC.
Owner Address:	1345 L, AVENIDA AVE.
Owner City,St,Zip:	MT. VIEW, CA 94043
Total Tanks:	0002
Tank Num:	001
Container Num:	2
Year Installed:	1968
Tank Capacity:	00003000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

W.L. LARSEN INC. (Continued) **U001594424**

Tank Num:	002
Container Num:	1
Year Installed:	1968
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

T143 **B&B LANDSCAPE INC** **CA HIST UST** **U001594372**
ESE **975 TERRA BELLA AVE** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.197 mi.
1039 ft. **Site 1 of 14 in cluster T**

Relative:
Higher

Actual:
39 ft.

HIST UST:

File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000027669
Facility Type:	Other
Other Type:	LANDSCAPE INC.
Contact Name:	Not reported
Telephone:	4159695787
Owner Name:	B&B LANDSCAPE INC
Owner Address:	975 TERRABELLA AVE
Owner City,St,Zip:	MOUNTAIN VIEW, CA 94043
Total Tanks:	0003
Tank Num:	001
Container Num:	3
Year Installed:	1977
Tank Capacity:	00000500
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	10
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	1977
Tank Capacity:	00000500
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	10
Leak Detection:	Stock Inventor
Tank Num:	003
Container Num:	1
Year Installed:	1977
Tank Capacity:	00000500
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	10
Leak Detection:	Stock Inventor

T144 **WATERPROOFING ASSOCIATES** **CA CERS HAZ WASTE** **S121777529**
ESE **975 TERRA BELLA AVENUE** **CA CERS** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.197 mi.
1039 ft. **Site 2 of 14 in cluster T**

Relative:
Higher

Actual:
39 ft.

CERS HAZ WASTE:

Site ID:	407409
CERS ID:	10356772
CERS Description:	Hazardous Waste Generator

Violations:

Site ID:	407409
Site Name:	Waterproofing Associates
Violation Date:	03-06-2018
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 training program in safety procedures in the event of a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 04/10/2018.
Violation Division:	Mountain View Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	407409
Site Name:	Waterproofing Associates
Violation Date:	03-06-2018
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 07/02/2018. Update propane amounts (gallons), and update full chemical list.acetylene,
Violation Division:	Mountain View Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	407409
Site Name:	Waterproofing Associates
Violation Date:	11-18-2015
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	Returned to compliance on 01/14/2016. Provide and document annual employee training.
Violation Division:	Mountain View Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-07-2016
Violations Found:	No
Eval Type:	Routine done by local agency

WATERPROOFING ASSOCIATES (Continued) **S121777529**

Eval Notes:	Onsite for routine hazardous waste inspection, noted the following: -Waterproofing materials are used up, no waste observed onsite today -Waste Oil drums, waste coolant and filter containers are in good condition with labels -Emergency Information updated today -Manifests reviewed onsite -Parts washer is serviced by safety kleen ***Please remove hazardous waste sticker from shed fence door where new oils are stored; also, remove the "Empty" stickers on waste oil drums. Keep used oil filter drum closed when not adding or removing crushed filters. NO violations were observed today, thank you. Questions regarding this report, please contact Jeffrey M. Higbee at 408-918-4785
Eval Division:	Santa Clara County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-06-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-02-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-18-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-14-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-10-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department

WATERPROOFING ASSOCIATES (Continued) **S121777529**

Eval Program: HMRRP
Eval Source: CERS

Affiliation:
Affiliation Type Desc: Legal Owner
Entity Name: Waterproofing Associates
Entity Title: Not reported
Affiliation Address: 975 Terra Bella Avenue
Affiliation City: Mountain View
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94043
Affiliation Phone: (650) 937-1299

Affiliation Type Desc: Document Preparer
Entity Name: Maria Mercado
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: 975 Terra Bella Avenue
Affiliation City: Mountain View
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94043
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: Waterproofing Associates
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 Clara County Environmental Health
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: San Jose
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95112-2716
Affiliation Phone: (408) 918-3400

Affiliation Type Desc: Environmental Contact
Entity Name: Maria Mercado
Entity Title: Not reported

WATERPROOFING ASSOCIATES (Continued) **S121777529**

Affiliation Address: 975 Terra Bella Avenue
Affiliation City: Mountain View
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94043
Affiliation Phone: (650) 937-1299

Affiliation Type Desc: Identification Signer
Entity Name: Steve Nash
Entity Title: Vice President
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Waterproofing Associates
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: (650) 937-1299

Affiliation Type Desc: Property Owner
Entity Name: 975 Terra Bella Properties
Entity Title: Not reported
Affiliation Address: 975 Terra Bella Ave
Affiliation City: Mountain View
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94043
Affiliation Phone: (800) 300-3307

CERS TANKS:
Site ID: 407409
CERS ID: 10356772
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 407409
Site Name: Waterproofing Associates
Violation Date: 03-06-2018
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 training program in safety procedures in the event of a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 04/10/2018.
Violation Division: Mountain View Fire Department
Violation Program: HMRRP
Violation Source: CERS

WATERPROOFING ASSOCIATES (Continued) **S121777529**

Site ID: 407409
Site Name: Waterproofing Associates
Violation Date: 03-06-2018
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 07/02/2018. Update propane amounts (gallons), and update full chemical list.acetylene,
Violation Division: Mountain View Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 407409
Site Name: Waterproofing Associates
Violation Date: 11-18-2015
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 01/14/2016. Provide and document annual employee training.
Violation Division: Mountain View Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-07-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Onsite for routine hazardous waste inspection, noted the following: -Waterproofing materials are used up, no waste observed onsite today -Waste Oil drums, waste coolant and filter containers are in good condition with labels -Emergency Information updated today -Manifests reviewed onsite -Parts washer is serviced by safety kleen ***Please remove hazardous waste sticker from shed fence door where new oils are stored; also, remove the "Empty" stickers on waste oil drums. Keep used oil filter drum closed when not adding or removing crushed filters. NO violations were observed today, thank you. Questions regarding this report, please contact Jeffrey M. Higbee at 408-918-4785
Eval Division: Santa Clara County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-06-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

WATERPROOFING ASSOCIATES (Continued) **S121777529**

Eval General Type: Other/Unknown
Eval Date: 07-02-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-18-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-14-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-10-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Affiliation:
Affiliation Type Desc: Legal Owner
Entity Name: Waterproofing Associates
Entity Title: Not reported
Affiliation Address: 975 Terra Bella Avenue
Affiliation City: Mountain View
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94043
Affiliation Phone: (650) 937-1299

Affiliation Type Desc: Document Preparer
Entity Name: Maria Mercado
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

WATERPROOFING ASSOCIATES (Continued) **S121777529**

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	975 Terra Bella Avenue
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	Waterproofing Associates
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 Clara County Environmental Health
Entity Title:	Not reported
Affiliation Address:	1555 Berger Drive, Suite 300
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95112-2716
Affiliation Phone:	(408) 918-3400

Affiliation Type Desc:	Environmental Contact
Entity Name:	Maria Mercado
Entity Title:	Not reported
Affiliation Address:	975 Terra Bella Avenue
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	(650) 937-1299

Affiliation Type Desc:	Identification Signer
Entity Name:	Steve Nash
Entity Title:	Vice President
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Waterproofing Associates
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported

WATERPROOFING ASSOCIATES (Continued) **S121777529**

Affiliation Zip:	Not reported
Affiliation Phone:	(650) 937-1299
Affiliation Type Desc:	Property Owner
Entity Name:	975 Terra Bella Properties
Entity Title:	Not reported
Affiliation Address:	975 Terra Bella Ave
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94043
Affiliation Phone:	(800) 300-3307

T145 **WATERPROOFING ASSOCIATES** **CA SWEEPS UST** **S101623029**
ESE **975 TERRA BELLA AV** **CA HIST UST** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043** **CA FID UST**
0.197 mi. **CA CUPA Listings**
1039 ft. **Site 3 of 14 in cluster T**

Relative: **Higher**
Actual: **39 ft.**

SWEEPS UST:

Status:	Not reported
Comp Number:	27669
Number:	Not reported
Board Of Equalization:	44-026001
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	43-005-027669-000001
Tank Status:	Not reported
Capacity:	500
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	LEADED
Number Of Tanks:	3
Status:	Not reported
Comp Number:	27669
Number:	Not reported
Board Of Equalization:	44-026001
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	43-005-027669-000002
Tank Status:	Not reported
Capacity:	500
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported
Status:	Not reported
Comp Number:	27669
Number:	Not reported

WATERPROOFING ASSOCIATES (Continued) **S101623029**

Board Of Equalization: 44-026001
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 43-005-027669-000003
Tank Status: Not reported
Capacity: 500
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

HIST UST:
File Number: 0002CE6C
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002CE6C.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

CA FID UST:
Facility ID: 43003287
Regulated By: UTNKI
Regulated ID: 00027669
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4159695787
Mail To: Not reported
Mailing Address: 975 TERRA BELLA AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: MOUNTAIN VIEW 94043
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported

WATERPROOFING ASSOCIATES (Continued) **S101623029**

Status: Inactive

CUPA SANTA CLARA:
Facility Name: WATERPROOFING ASSOCIATES
Region: SANTA CLARA
PE#: 2205
Program Description: GENERATES 100 KG YR TO <5 TONS/YR
Latitude: 37.408329
Longitude: -122.072436
Record ID: PR0365770
Facility ID: FA0251647

T146 **NIA CREATIVE** **CA CUPA Listings** **S121471993**
East **970 TERRA BELLA AV 9** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.198 mi.
1043 ft. **Site 4 of 14 in cluster T**

Relative:
Higher

Actual:
39 ft.

CUPA SANTA CLARA:
Facility Name: NIA CREATIVE
Region: SANTA CLARA
PE#: 2205
Program Description: GENERATES 100 KG YR TO <5 TONS/YR
Latitude: 37.408599
Longitude: -122.072389
Record ID: PR0366138
Facility ID: FA0251865

S147 **LEO OTT LANDSCAPE INC. YARD** **CA HIST UST** **U001594390**
NNE **1315 LAVENIDA ST** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.198 mi.
1044 ft. **Site 3 of 8 in cluster S**

Relative:
Lower

Actual:
27 ft.

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000045754
Facility Type: Other
Other Type: LANDSCAPE YARD
Contact Name: LEO OTT
Telephone: 4159689330
Owner Name: LEO OT LANDSCAPE CONTRACTOR, I
Owner Address: 1315 L'AVENIDA
Owner City,St,Zip: MTN. VIEW, CA 94043
Total Tanks: 0001

Tank Num: 001
Container Num: 001
Year Installed: 1968
Tank Capacity: 00000500
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

S148 **COASTSIDE NURSERY** **CA HIST LUST** **S104541853**
North **1360 L'AVENIDA ST** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA**
0.200 mi.
1054 ft. **Site 4 of 8 in cluster S**

Relative:
Lower

Actual:
27 ft.

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 06S2W15E01
Oversite Agency: SFRWQCB
Date Listed: 1998-01-01 00:00:00
Closed Date: 1997-02-20 00:00:00

S149 **COASTSIDE NURSERY** **CA LUST** **S105025092**
North **1360 L'AVENIDA AVE** **CA HIST CORTESE** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.200 mi.
1054 ft. **Site 5 of 8 in cluster S**

Relative:
Lower

Actual:
27 ft.

LUST:
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608501748
Global Id: T0608501748
Latitude: 37.4139178200201
Longitude: -122.077772761902
Status: Completed - Case Closed
Status Date: 02/20/1997
Case Worker: UUU
RB Case Number: 43-1821
Local Agency: SANTA CLARA COUNTY LOP
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0608501748
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

Global Id: T0608501748
Contact Type: Local Agency Caseworker
Contact Name: UST CASE WORKER
Organization Name: SANTA CLARA COUNTY LOP
Address: 1555 Berger Drive, Suite 300
City: SAN JOSE
Email: Not reported
Phone Number: 4089183400

LUST:
Global Id: T0608501748
Action Type: Other

COASTSIDE NURSERY (Continued) **S105025092**

Date: 02/04/1988
Action: Leak Reported

Global Id: T0608501748
Action Type: ENFORCEMENT
Date: 02/20/1997
Action: Closure/No Further Action Letter

Global Id: T0608501748
Action Type: Other
Date: 02/04/1988
Action: Leak Discovery

Global Id: T0608501748
Action Type: RESPONSE
Date: 02/20/1997
Action: Other Report / Document

Global Id: T0608501748
Action Type: Other
Date: 02/04/1988
Action: Leak Stopped

LUST:
Global Id: T0608501748
Status: Completed - Case Closed
Status Date: 02/20/1997

Global Id: T0608501748
Status: Open - Case Begin Date
Status Date: 02/04/1988

LUST REG 2:
Region: 2
Facility Id: 43-1821
Facility Status: Case Closed
Case Number: 06S2W15E01
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 06S2W15E01F
Date Closed: 02/20/1997
EDR Link ID: 06S2W15E01F

COASTSIDE NURSERY (Continued) **S105025092**

HIST CORTESE:
- Region: CORTESE
- Facility County Code: 43
- Reg By: LTNKA
- Reg Id: 43-1821

S150 **SURE FLOW INC DBA ROTO RO** **RCRA NonGen / NLR** **1000196695**
NNE **1330 L'AVENIDA** **FINDS** **CAD054808340**
1/8-1/4 **MOUNTAIN VIEW, CA 94043** **ECHO**
0.202 mi.
1066 ft. **Site 6 of 8 in cluster S**

Relative:
Lower

Actual:
27 ft.

RCRA NonGen / NLR:
- Date form received by agency: 03/05/1981
- Facility name: SURE FLOW INC DBA ROTO RO
- Facility address: 1330 L'AVENIDA
  MOUNTAIN VIEW, CA 94043
- EPA ID: CAD054808340
- Mailing address: L'AVENIDA
  MOUNTAIN VIEW, CA 94043
- Contact: ENVIRONMENTAL MANAGER
- Contact address: 1330 L'AVENIDA
  MOUNTAIN VIEW, CA 94043
- Contact country: US
- Contact telephone: 415-968-5933
- Contact email: Not reported
- EPA Region: 09
- Classification: Non-Generator
- Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
- Owner/operator name: NOT REQUIRED
- Owner/operator address: NOT REQUIRED
  NOT REQUIRED, ME 99999
- Owner/operator country: Not reported
- Owner/operator telephone: 415-555-1212
- Owner/operator email: Not reported
- Owner/operator fax: Not reported
- Owner/operator extension: Not reported
- Legal status: Private
- Owner/Operator Type: Owner
- Owner/Op start date: Not reported
- Owner/Op end date: Not reported

- Owner/operator name: NOT REQUIRED
- Owner/operator address: NOT REQUIRED
  NOT REQUIRED, ME 99999
- Owner/operator country: Not reported
- Owner/operator telephone: 415-555-1212
- Owner/operator email: Not reported
- Owner/operator fax: Not reported
- Owner/operator extension: Not reported
- Legal status: Private
- Owner/Operator Type: Operator
- Owner/Op start date: Not reported
- Owner/Op end date: Not reported

SURE FLOW INC DBA ROTO RO (Continued) **1000196695**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002650060

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: 1000196695
Registry ID: 110002650060
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002650060

S151 **ROTO-ROOTER SEWER SERVICE** **CA LUST** **S101309038**
NNE **1330 LAVENIDA ST** **CA HIST LUST** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043** **CA CERS**
0.202 mi.
1066 ft. **Site 7 of 8 in cluster S**

Relative:
Lower

Actual:
27 ft.

LUST:
Lead Agency: SANTA CLARA COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608579977
Global Id: T0608579977
Latitude: 37.413845
Longitude: -122.075695
Status: Completed - Case Closed
Status Date: 02/20/1996
Case Worker: UST
RB Case Number: Not reported

ROTO-ROOTER SEWER SERVICE (Continued) **S101309038**

Local Agency: SANTA CLARA COUNTY LOP
File Location: All Files are on GeoTracker or in the Local Agency Database
Local Case Number: Not reported
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0608579977
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

Global Id: T0608579977
Contact Type: Local Agency Caseworker
Contact Name: UST CASE WORKER
Organization Name: SANTA CLARA COUNTY LOP
Address: 1555 Berger Drive, Suite 300
City: SAN JOSE
Email: Not reported
Phone Number: 4089183400

LUST:
Global Id: T0608579977
Action Type: Other
Date: 06/09/1988
Action: Leak Reported

Global Id: T0608579977
Action Type: RESPONSE
Date: 02/20/1996
Action: Other Report / Document

Global Id: T0608579977
Action Type: ENFORCEMENT
Date: 02/20/1995
Action: Closure/No Further Action Letter

Global Id: T0608579977
Action Type: ENFORCEMENT
Date: 11/27/1989
Action: Notice of Responsibility - #40182

LUST:
Global Id: T0608579977
Status: Completed - Case Closed
Status Date: 02/20/1996

Global Id: T0608579977
Status: Open - Case Begin Date
Status Date: 06/09/1988

Global Id: T0608579977

ROTO-ROOTER SEWER SERVICE (Continued) **S101309038**

Status: Open - Site Assessment
Status Date: 11/27/1989

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 06S2W15E05f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 11/27/1989
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 06S2W15E05F
Date Closed: 02/20/1996
EDR Link ID: 06S2W15E05F

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 06S2W15E05
Oversite Agency: SCVWD
Date Listed: 1989-01-01 00:00:00
Closed Date: 1996-02-20 00:00:00

CERS TANKS:
Site ID: 211698
CERS ID: T0608579977
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: UST CASE WORKER - SANTA CLARA COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: SAN JOSE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 4089183400

Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND

ROTO-ROOTER SEWER SERVICE (Continued) **S101309038**

Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

S152 **ROTO ROOTER SEWER SERVICE** **CA HIST CORTESE** **S105025091**
NNE **1330 L AVENIDA** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA**
0.202 mi.
1066 ft. **Site 8 of 8 in cluster S**

Relative: HIST CORTESE:
Lower
Actual: Region: CORTESE
27 ft. Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-1133

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153 **FEDERAL COLLISION CENTER** **CA CUPA Listings** **S121472654**
SSE **2025B/2 OLD MIDDLEFIELD WY** **N/A**
1/8-1/4 **MT VIEW, CA 94043**
0.206 mi.
1089 ft.

Relative: CUPA SANTA CLARA:
Higher
Actual: Facility Name: FEDERAL COLLISION CENTER
45 ft. Region: SANTA CLARA
PE#: 2205
Program Description: GENERATES 100 KG YR TO <5 TONS/YR
Latitude: 37.405541
Longitude: -122.07603
Record ID: PR0372587
Facility ID: FA0255165

U154 **JEVELOT** **CA CUPA Listings** **S121472109**
NNE **1280 L'AVENIDA** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.214 mi.
1129 ft. **Site 1 of 16 in cluster U**

Relative: CUPA SANTA CLARA:
Lower
Actual: Facility Name: JEVELOT
27 ft. Region: SANTA CLARA
PE#: 2202
Program Description: GENERATES < 100 KG/YR
Latitude: 37.413537
Longitude: -122.076138
Record ID: PR0367238
Facility ID: FA0252320

V155 **JEDA PUBLICATIONS** **CA CUPA Listings** **S121469074**
SE **909 SAN RAFAEL AV A** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.216 mi.
1141 ft. **Site 1 of 3 in cluster V**

Relative:
Higher

Actual:
42 ft.

CUPA SANTA CLARA:

Facility Name:	JEDA PUBLICATIONS
Region:	SANTA CLARA
PE#:	2205
Program Description:	GENERATES 100 KG YR TO <5 TONS/YR
Latitude:	37.406654
Longitude:	-122.072756
Record ID:	PR0313895
Facility ID:	FA0204333

V156 **PARAMOUNT PRINTING** **CA CUPA Listings** **S121471766**
SE **909 SAN RAFAEL AV B** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.216 mi.
1141 ft. **Site 2 of 3 in cluster V**

Relative:
Higher

Actual:
42 ft.

CUPA SANTA CLARA:

Facility Name:	PARAMOUNT PRINTING
Region:	SANTA CLARA
PE#:	2202
Program Description:	GENERATES < 100 KG/YR
Latitude:	37.406654
Longitude:	-122.072756
Record ID:	PR0364283
Facility ID:	FA0251019

V157 **JEDA PUBLICATIONS** **RCRA-SQG** **1000685754**
SE **909 SAN RAFAEL AVE UNIT A** **FINDS** **CAD983623851**
1/8-1/4 **MOUNTAIN VIEW, CA 94043** **ECHO**
0.216 mi. **CA EMI**
1141 ft. **Site 3 of 3 in cluster V** **CA HAZNET**

Relative:
Higher

Actual:
42 ft.

RCRA-SQG:

Date form received by agency:	03/12/1992
Facility name:	JEDA PUBLICATIONS
Facility address:	909 SAN RAFAEL AVE UNIT A MOUNTAIN VIEW, CA 94043
EPA ID:	CAD983623851
Contact:	CARL SELLERS JR
Contact address:	909 SAN RAFAEL AVE UNIT A MOUNTAIN VIEW, CA 94043
Contact country:	US
Contact telephone:	415-969-4121
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

JEDA PUBLICATIONS (Continued) **1000685754**

Owner/Operator Summary:
- Owner/operator name: JEDA PUBLICATIONS
- Owner/operator address: 909 SAN RAFAEL AVE UNIT A
  MOUNTAIN VIEW, CA 94043
- Owner/operator country: Not reported
- Owner/operator telephone: 415-969-4121
- Owner/operator email: Not reported
- Owner/operator fax: Not reported
- Owner/operator extension: Not reported
- Legal status: Private
- Owner/Operator Type: Owner
- Owner/Op start date: Not reported
- Owner/Op end date: Not reported

Handler Activities Summary:
- U.S. importer of hazardous waste: No
- Mixed waste (haz. and radioactive): No
- Recycler of hazardous waste: No
- Transporter of hazardous waste: No
- Treater, storer or disposer of HW: No
- Underground injection activity: No
- On-site burner exemption: No
- Furnace exemption: No
- Used oil fuel burner: No
- Used oil processor: No
- User oil refiner: No
- Used oil fuel marketer to burner: No
- Used oil Specification marketer: No
- Used oil transfer facility: No
- Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002410999

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: 1000685754
- Registry ID: 110002410999
- DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002410999

EMI:
- Year: 1995

JEDA PUBLICATIONS (Continued) **1000685754**

County Code:	43
Air Basin:	SF
Facility ID:	8530
Air District Name:	BA
SIC Code:	2752
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1996
County Code:	43
Air Basin:	SF
Facility ID:	8530
Air District Name:	BA
SIC Code:	2752
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1997
County Code:	43
Air Basin:	SF
Facility ID:	8530
Air District Name:	BA
SIC Code:	2752
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
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

HAZNET:

Facility Name:	JEDA PUBLICATIONS
envid:	1000685754
Year:	1998
GEPAID:	CAD983623851
Contact:	JEDA PUBLICATIONS
Telephone:	4159694121

JEDA PUBLICATIONS (Continued) **1000685754**

Mailing Name:	Not reported
Mailing Address:	909 SAN RAFAEL AVE UNIT A
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 940431925
Gen County:	Not reported
TSD EPA ID:	CAD003963592
TSD County:	Not reported
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Tons:	.5004
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

envid:	1000685754
Year:	1998
GEPAID:	CAD983623851
Contact:	JEDA PUBLICATIONS
Telephone:	4159694121
Mailing Name:	Not reported
Mailing Address:	909 SAN RAFAEL AVE UNIT A
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 940431925
Gen County:	Not reported
TSD EPA ID:	CAD003963592
TSD County:	Not reported
Waste Category:	Metal sludge (Alkaline solution (pH >= 12.5) with metals)
Disposal Method:	Recycler
Tons:	.0028
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

envid:	1000685754
Year:	1997
GEPAID:	CAD983623851
Contact:	JEDA PUBLICATIONS
Telephone:	4159694121
Mailing Name:	Not reported
Mailing Address:	909 SAN RAFAEL AVE UNIT A
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 940431925
Gen County:	Not reported
TSD EPA ID:	CAD003963592
TSD County:	Not reported
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Tons:	.7506
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

envid:	1000685754
Year:	1996
GEPAID:	CAD983623851
Contact:	JEDA PUBLICATIONS
Telephone:	4159694121
Mailing Name:	Not reported
Mailing Address:	909 SAN RAFAEL AVE UNIT A
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 940431925

JEDA PUBLICATIONS (Continued) **1000685754**

Gen County:	Not reported
TSD EPA ID:	CAD003963592
TSD County:	Not reported
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Tons:	.5004
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

envid:	1000685754
Year:	1996
GEPAID:	CAD983623851
Contact:	JEDA PUBLICATIONS
Telephone:	4159694121
Mailing Name:	Not reported
Mailing Address:	909 SAN RAFAEL AVE UNIT A
Mailing City,St,Zip:	MOUNTAIN VIEW, CA 940431925
Gen County:	Not reported
TSD EPA ID:	CAD003963592
TSD County:	Not reported
Waste Category:	Metal sludge (Alkaline solution (pH >= 12.5) with metals)
Disposal Method:	Recycler
Tons:	.0020
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

Click this hyperlink while viewing on your computer to access
7 additional CA_HAZNET: record(s) in the EDR Site Report.

U158 **SCV TRANS. AUTHORITY** **CA UST** **U003659386**
NNE **1241 LA AVENIDA ST** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.216 mi.
1142 ft. **Site 2 of 16 in cluster U**

Relative: **Lower**
Actual: **27 ft.**

UST:

Facility ID:	1625
Permitting Agency:	MOUNTAIN VIEW, CITY OF
Latitude:	37.41328
Longitude:	-122.07455

U159 **AT&T MOBILITY - MOFFETT FIELD (USID137295)** **CA CERS HAZ WASTE** **S121765088**
NNE **1235 LA AVENIDA ST** **CA CERS** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.218 mi.
1152 ft. **Site 3 of 16 in cluster U**

Relative: **Lower**
Actual: **27 ft.**

CERS HAZ WASTE:

Site ID:	354825
CERS ID:	10636558
CERS Description:	Hazardous Waste Generator

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	09-27-2017

AT&T MOBILITY - MOFFETT FIELD (USID137295) (Continued) **S121765088**

Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-13-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No Violations.
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 354825
Facility Name: AT&T Mobility - Moffett Field (USID137295)
Env Int Type Code: HMBP
Program ID: 10636558
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 37.413320
Longitude: -122.075460

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 308 S. Akard St., 17th Floor
Affiliation City: Dallas
Affiliation State: TX
Affiliation Country: Not reported
Affiliation Zip: 75202
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: Jeremy McGrue
Entity Title: National EPCRA Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: AT&T Mobility
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (408) 772-0254

AT&T MOBILITY - MOFFETT FIELD (USID137295) (Continued) **S121765088**

Affiliation Type Desc:	Parent Corporation
Entity Name:	AT&T Mobility
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 Clara County Environmental Health
Entity Title:	Not reported
Affiliation Address:	1555 Berger Drive, Suite 300
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95112-2716
Affiliation Phone:	(408) 918-3400

Affiliation Type Desc:	Environmental Contact
Entity Name:	Rose Blackmer
Entity Title:	Not reported
Affiliation Address:	145 S. Montgomery St. - Room 208
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95110
Affiliation Phone:	(408) 772-0254

Affiliation Type Desc:	Legal Owner
Entity Name:	New Cingular Wireless PCS, LLC dba AT&T Mobility
Entity Title:	Not reported
Affiliation Address:	308 S. Akard St., 17th Floor
Affiliation City:	Dallas
Affiliation State:	TX
Affiliation Country:	United States
Affiliation Zip:	75202
Affiliation Phone:	(214) 464-1712

Affiliation Type Desc:	Document Preparer
Entity Name:	Peter Burnell, Sigma Consultants, 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:	Property Owner
Entity Name:	New Cingular Wireless PCS, LLC dba AT&T Mobility
Entity Title:	Not reported
Affiliation Address:	308 S. Akard St., Room 1708
Affiliation City:	Dallas
Affiliation State:	TX
Affiliation Country:	United States

AT&T MOBILITY - MOFFETT FIELD (USID137295) (Continued) **S121765088**

Affiliation Zip: 75202
Affiliation Phone: (214) 464-2626

CERS TANKS:
Site ID: 354825
CERS ID: 10636558
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 09-27-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-13-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No Violations.
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 354825
Facility Name: AT&T Mobility - Moffett Field (USID137295)
Env Int Type Code: HMBP
Program ID: 10636558
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 37.413320
Longitude: -122.075460

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 308 S. Akard St., 17th Floor
Affiliation City: Dallas
Affiliation State: TX
Affiliation Country: Not reported
Affiliation Zip: 75202
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: Jeremy McGrue
Entity Title: National EPCRA Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported

AT&T MOBILITY - MOFFETT FIELD (USID137295) (Continued) **S121765088**

Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	AT&T Mobility
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(408) 772-0254
Affiliation Type Desc:	Parent Corporation
Entity Name:	AT&T Mobility
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 Clara County Environmental Health
Entity Title:	Not reported
Affiliation Address:	1555 Berger Drive, Suite 300
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95112-2716
Affiliation Phone:	(408) 918-3400
Affiliation Type Desc:	Environmental Contact
Entity Name:	Rose Blackmer
Entity Title:	Not reported
Affiliation Address:	145 S. Montgomery St. - Room 208
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95110
Affiliation Phone:	(408) 772-0254
Affiliation Type Desc:	Legal Owner
Entity Name:	New Cingular Wireless PCS, LLC dba AT&T Mobility
Entity Title:	Not reported
Affiliation Address:	308 S. Akard St., 17th Floor
Affiliation City:	Dallas
Affiliation State:	TX
Affiliation Country:	United States
Affiliation Zip:	75202
Affiliation Phone:	(214) 464-1712
Affiliation Type Desc:	Document Preparer
Entity Name:	Peter Burnell, Sigma Consultants, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported

AT&T MOBILITY - MOFFETT FIELD (USID137295) (Continued) **S121765088**

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:	New Cingular Wireless PCS, LLC dba AT&T Mobility
Entity Title:	Not reported
Affiliation Address:	308 S. Akard St., Room 1708
Affiliation City:	Dallas
Affiliation State:	TX
Affiliation Country:	United States
Affiliation Zip:	75202
Affiliation Phone:	(214) 464-2626

U160 **VTA NORTH YARD** **CA LUST S123102443**
NNE **1235 LA AVENIDA STREET** **CA CERS N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.218 mi.
1152 ft. **Site 4 of 16 in cluster U**

Relative: **Lower**

Actual: **27 ft.**

LUST:

Lead Agency:	SANTA CLARA COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T10000012109
Global Id:	T10000012109
Latitude:	37.41198
Longitude:	-122.07469
Status:	Open - Site Assessment
Status Date:	09/20/2018
Case Worker:	TLF
RB Case Number:	Not reported
Local Agency:	SANTA CLARA COUNTY LOP
File Location:	All Files are on GeoTracker or in the Local Agency Database
Local Case Number:	2018-03f
Potential Media Affect:	Other Groundwater (uses other than drinking water), Soil, Under Investigation
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

LUST:

Global Id:	T10000012109
Contact Type:	Local Agency Caseworker
Contact Name:	TRAVIS L. FLORA
Organization Name:	SANTA CLARA COUNTY LOP
Address:	1555 Berger Dr.
City:	SAN JOSE
Email:	travis.flora@cep.sccgov.org
Phone Number:	4089183486

LUST:

Global Id:	T10000012109
Action Type:	Other
Date:	09/06/2018
Action:	Leak Stopped

VTA NORTH YARD (Continued) **S123102443**

Global Id: T10000012109
Action Type: RESPONSE
Date: 10/02/2018
Action: Correspondence

Global Id: T10000012109
Action Type: Other
Date: 08/29/2018
Action: Leak Reported

Global Id: T10000012109
Action Type: ENFORCEMENT
Date: 08/29/2018
Action: Unauthorized Release Form

Global Id: T10000012109
Action Type: ENFORCEMENT
Date: 10/03/2018
Action: Staff Letter

Global Id: T10000012109
Action Type: ENFORCEMENT
Date: 09/20/2018
Action: Notice of Responsibility

Global Id: T10000012109
Action Type: RESPONSE
Date: 11/30/2018
Action: Site Assessment Report

Global Id: T10000012109
Action Type: Other
Date: 08/28/2018
Action: Leak Began

Global Id: T10000012109
Action Type: Other
Date: 08/29/2018
Action: Leak Discovery

LUST:
Global Id: T10000012109
Status: Open - Case Begin Date
Status Date: 08/29/2018

Global Id: T10000012109
Status: Open - Site Assessment
Status Date: 09/20/2018

CERS TANKS:
Site ID: 443608
CERS ID: T10000012109
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker

VTA NORTH YARD (Continued) **S123102443**

Entity Name:	TRAVIS L. FLORA - SANTA CLARA COUNTY LOP
Entity Title:	Not reported
Affiliation Address:	1555 Berger Dr.
Affiliation City:	SAN JOSE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	4089183486

U161 **SCVTA-NORTH BUS DIVISION** **CA CUPA Listings** **S117892390**
NNE **1235 LA AVENIDA ST** **CA EMI** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.218 mi.
1152 ft. **Site 5 of 16 in cluster U**

Relative:
Lower

Actual:
27 ft.

CUPA SANTA CLARA:

Facility Name:	SCVTA-NORTH BUS DIVISION
Region:	SANTA CLARA
PE#:	2011
Program Description:	APSA FACILITY-SPCC TEMPLATE (<10,000 GAL CAP)
Latitude:	37.413223
Longitude:	-122.075369
Record ID:	PR0399569
Facility ID:	FA0203443

Region:	SANTA CLARA
PE#:	2206
Program Description:	GENERATES 5 TO <25 TONS/YR
Latitude:	37.413223
Longitude:	-122.075369
Record ID:	PR0313064
Facility ID:	FA0203443

EMI:

Year:	2014
County Code:	43
Air Basin:	SF
Facility ID:	22347
Air District Name:	BA
SIC Code:	4812
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.000254923
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0.004103142
NOX - Oxides of Nitrogen Tons/Yr:	0.004168194
SOX - Oxides of Sulphur Tons/Yr:	7.846e-006
Particulate Matter Tons/Yr:	0.000184397
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.000177021

Year:	2015
County Code:	43
Air Basin:	SF
Facility ID:	22347
Air District Name:	BA

SCVTA-NORTH BUS DIVISION (Continued) **S117892390**

SIC Code:	4812
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.000254923
Reactive Organic Gases Tons/Yr:	0.000222742
Carbon Monoxide Emissions Tons/Yr:	0.004103142
NOX - Oxides of Nitrogen Tons/Yr:	0.004168194
SOX - Oxides of Sulphur Tons/Yr:	7.846e-006
Particulate Matter Tons/Yr:	0.000184397
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.000177021

Year:	2016
County Code:	43
Air Basin:	SF
Facility ID:	22347
Air District Name:	BA
SIC Code:	4812
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.000254923
Reactive Organic Gases Tons/Yr:	0.0002239498555
Carbon Monoxide Emissions Tons/Yr:	0.004103142
NOX - Oxides of Nitrogen Tons/Yr:	0.004168194
SOX - Oxides of Sulphur Tons/Yr:	7.846e-006
Particulate Matter Tons/Yr:	0.000184397
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.000177021

U162 **RUDOLPH AND SLETTEN EQUIP YAR** **CA HIST UST** **S118414929**
NNE **1260 L AVENIDA** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94042**
0.220 mi.
1162 ft. **Site 6 of 16 in cluster U**

Relative: **Lower**
Actual: **27 ft.**

HIST UST:

File Number:	00020828
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00020828.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

RUDOLPH AND SLETTEN EQUIP YAR (Continued) **S118414929**

Click here for Geo Tracker PDF:

U163 **RUDOLPH AND SLETTEN EQUIP. YAR** **CA HIST UST** **U001594368**
NNE **1260 LAVENIDA ST** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94042**
0.220 mi.
1162 ft. **Site 7 of 16 in cluster U**

Relative:
Lower

Actual:
27 ft.

HIST UST:

File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000065613
Facility Type:	Other
Other Type:	CONSTRUCTION YARD
Contact Name:	DAVID LINDVALL
Telephone:	4159621400
Owner Name:	RUDOLPH AND SLETTEN, INC.
Owner Address:	989 EAST HILLSDALE BLVD
Owner City,St,Zip:	FOSTER CITY, CA 94404
Total Tanks:	0003
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00004000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	3
Year Installed:	Not reported
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	003
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00004000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

R164 **SPACE SYSTEMS/LORAL, LLC (BLDG 50)** **RCRA NonGen / NLR** **1010562254**
WSW **1340 W MIDDLEFIELD ROAD** **FINDS** **CAR000188763**
1/8-1/4 **MOUNTAIN VIEW, CA 94043** **ECHO**
0.223 mi. **CA HAZNET**
1177 ft. **Site 2 of 3 in cluster R**

Relative:
Higher

Actual:
38 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/08/2018
Facility name:	SPACE SYSTEMS LORAL BLDG 50
Facility address:	1340 W MIDDLEFIELD RD MOUNTAIN VIEW, CA 94303
EPA ID:	CAR000188763
Mailing address:	3825 FABIAN WAY MS D 07 PALO ALTO, CA 94303
Contact:	LANA SHEW
Contact address:	3825 FABIAN WAY MS D 07 PALO ALTO, CA 94303
Contact country:	US
Contact telephone:	650-852-4193
Contact email:	SHEW.LANA@SSD.LORAL.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	MDA COMMUNICATIONS HOLDINGS INC
Owner/operator address:	13800 COMMERCE PARKWAY RICHMOND, BC V6V 2
Owner/operator country:	CA
Owner/operator telephone:	1-604-278-3411
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	11/02/2012
Owner/Op end date:	Not reported

Owner/operator name:	SPACE SYSTEMS LORAL LLC
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	11/02/2012
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No

SPACE SYSTEMS/LORAL, LLC (BLDG 50) (Continued) **1010562254**

Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: 352
. Waste name: Other organic solids

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D011
. Waste name: SILVER

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Historical Generators:
Date form received by agency: 01/23/2013
Site name: SPACE SYSTEMS LORAL BLDG 50
Classification: Large Quantity Generator

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

SPACE SYSTEMS/LORAL, LLC (BLDG 50) (Continued) **1010562254**

. Waste code: 352
. Waste name: Other organic solids

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D011
. Waste name: SILVER

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 11/19/2007
Site name: SPACE SYSTEMS LORAL BLDG 50
Classification: Small Quantity Generator

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D011
. Waste name: SILVER

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

FINDS:

Registry ID: 110055074887

Environmental Interest/Information System
AIR EMISSIONS CLASSIFICATION UNKNOWN

SPACE SYSTEMS/LORAL, LLC (BLDG 50) (Continued) **1010562254**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1010562254
Registry ID:	110055074887
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110055074887

HAZNET:

Facility Name:	SPACE SYSTEMS/LORAL LLC BUILDING 50
envid:	1010562254
Year:	2017
GEPAID:	CAR000188763
Contact:	LANA SHEW
Telephone:	6508524193
Mailing Name:	Not reported
Mailing Address:	3825 FABIAN WAY
Mailing City,St,Zip:	PALO ALTO, CA 943030000
Gen County:	Santa Clara
TSD EPA ID:	CAD980675276
TSD County:	Kern
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	4.675
Cat Decode:	Unspecified organic liquid mixture
Method Decode:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County:	Santa Clara

envid:	1010562254
Year:	2017
GEPAID:	CAR000188763
Contact:	LANA SHEW
Telephone:	6508524193
Mailing Name:	Not reported
Mailing Address:	3825 FABIAN WAY
Mailing City,St,Zip:	PALO ALTO, CA 943030000
Gen County:	Santa Clara
TSD EPA ID:	CAD059494310
TSD County:	Santa Clara
Waste Category:	Other organic solids
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.036
Cat Decode:	Other organic solids

SPACE SYSTEMS/LORAL, LLC (BLDG 50) (Continued) **1010562254**

Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Santa Clara
envid:	1010562254
Year:	2017
GEPAID:	CAR000188763
Contact:	LANA SHEW
Telephone:	6508524193
Mailing Name:	Not reported
Mailing Address:	3825 FABIAN WAY
Mailing City,St,Zip:	PALO ALTO, CA 943030000
Gen County:	Santa Clara
TSD EPA ID:	CAD059494310
TSD County:	Santa Clara
Waste Category:	Other organic solids
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.036
Cat Decode:	Other organic solids
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Santa Clara
envid:	1010562254
Year:	2017
GEPAID:	CAR000188763
Contact:	LANA SHEW
Telephone:	6508524193
Mailing Name:	Not reported
Mailing Address:	3825 FABIAN WAY
Mailing City,St,Zip:	PALO ALTO, CA 943030000
Gen County:	Santa Clara
TSD EPA ID:	CAD059494310
TSD County:	Santa Clara
Waste Category:	Other inorganic solid waste
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.5325
Cat Decode:	Other inorganic solid waste
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Santa Clara
envid:	1010562254
Year:	2017
GEPAID:	CAR000188763
Contact:	LANA SHEW
Telephone:	6508524193
Mailing Name:	Not reported
Mailing Address:	3825 FABIAN WAY
Mailing City,St,Zip:	PALO ALTO, CA 943030000
Gen County:	Santa Clara
TSD EPA ID:	CAD059494310
TSD County:	Santa Clara
Waste Category:	Other inorganic solid waste
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

SPACE SYSTEMS/LORAL, LLC (BLDG 50) (Continued) **1010562254**

(H010-H129) Or (H131-H135)
Tons: 0.5325
Cat Decode: Other inorganic solid waste
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Santa Clara

Click this hyperlink while viewing on your computer to access
157 additional CA_HAZNET: record(s) in the EDR Site Report.

R165 **SPACE SYSTEMS/LORAL** **CA CUPA Listings** **S117540920**
WSW **1340 W MIDDLEFIELD RD BLDG 50** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.223 mi.
1177 ft. **Site 3 of 3 in cluster R**

Relative: **Higher**
Actual: **38 ft.**

CUPA SANTA CLARA:
Facility Name: SPACE SYSTEMS/LORAL
Region: SANTA CLARA
PE#: 2206
Program Description: GENERATES 5 TO <25 TONS/YR
Latitude: 37.408179
Longitude: -122.081515
Record ID: PR0384296
Facility ID: FA0262048

U166 **SCVTA-NORTH BUS DIVISION** **CA AST** **A100424289**
NNE **1235 L'AVENIDA AV** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.223 mi.
1177 ft. **Site 8 of 16 in cluster U**

Relative: **Lower**
Actual: **27 ft.**

AST:
Certified Unified Program Agencies: Not reported
Owner: SC VALLEY TRANSPORTATION AUTH
Total Gallons: Not reported
CERSID: 10170093
Facility ID: 712
Business Name: SANTA CLARA VALLEY TRANSPORTATION AUTHORITY
Phone: 408-321-5590
Fax: Not reported
Mailing Address: 3331 N. 1st Street, B-2
Mailing Address City: SAN JOSE
Mailing Address State: CA
Mailing Address Zip Code: Not reported
Operator Name: Santa Clara Valley Transportation Authority
Operator Phone: 4159694111
Owner Phone: 408-321-5590
Owner Mail Address: 3331 N. 1st Street, B-2
Owner State: CA
Owner Zip Code: Not reported
Owner Country: United States
Property Owner Name: SC VALLEY TRANSPORTATION AUTH
Property Owner Phone: 408-321-5590
Property Owner Mailing Address: 3331 N. 1st Street, B-2
Property Owner City: SAN JOSE

SCVTA-NORTH BUS DIVISION (Continued) **A100424289**

Property Owner Stat : CA
Property Owner Zip Code: Not reported
Property Owner Country: United States
EPAID: CAD980694640

U167 **SCVTA-NORTH BUS DIVISION** **CA UST** **U004262832**
NNE **1235 L'AVENIDA AV** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.223 mi.
1177 ft. **Site 9 of 16 in cluster U**

Relative: UST:
Lower
Facility ID: 712
Actual: Permitting Agency: Santa Clara County Environmental Health
27 ft. Latitude: Not reported
Longitude: Not reported

U168 **NORTH DIVISION** **CA HIST UST** **U001594398**
NNE **1235 LAVENIDA ST** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.223 mi.
1177 ft. **Site 10 of 16 in cluster U**

Relative: HIST UST:
Lower
File Number: Not reported
Actual: URL: Not reported
27 ft. Region: STATE
Facility ID: 00000030168
Facility Type: Other
Other Type: GARAGE
Contact Name: MATSON IDA MS.
Telephone: 4159694111
Owner Name: SANTA CLARA COUNTY TRANSIT
Owner Address: 1555 BERGER DR
Owner City,St,Zip: SAN JOSE, CA 95112
Total Tanks: 0009

Tank Num: 001
Container Num: #2
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Pressure Test

Tank Num: 002
Container Num: #1
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Pressure Test

Tank Num: 003

NORTH DIVISION (Continued) **U001594398**

Container Num:	#3
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Pressure Test
Tank Num:	004
Container Num:	#4
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Pressure Test
Tank Num:	005
Container Num:	#5
Year Installed:	Not reported
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Pressure Test
Tank Num:	006
Container Num:	#6
Year Installed:	Not reported
Tank Capacity:	00002000
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Pressure Test
Tank Num:	007
Container Num:	#7
Year Installed:	Not reported
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Pressure Test
Tank Num:	008
Container Num:	8
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported
Tank Num:	009
Container Num:	9
Year Installed:	Not reported
Tank Capacity:	00000000

NORTH DIVISION (Continued) **U001594398**

Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Not reported
Tank Num:	010
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000100
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Visual

U169 **RUDOLPH AND SLETTEN INC** **RCRA-SQG** **1000334017**
NNE **1250 L'AVENIDA** **CA LUST** **CAD982475477**
1/8-1/4 **MOUNTAIN VIEW, CA 94043** **CA HIST LUST**
0.223 mi. **CA SWEEPS UST**
1179 ft. **Site 11 of 16 in cluster U** **CA FID UST**
FINDS
Relative: **ECHO**
Lower

Actual: **27 ft.**

RCRA-SQG:

Date form received by agency:	06/20/1988
Facility name:	RUDOLPH AND SLETTEN INC
Facility address:	1250 L'AVENIDA MOUNTAIN VIEW, CA 94043
EPA ID:	CAD982475477
Mailing address:	BOX FOURTH THOUSAND SIXTH HUND FOSTER CITY, CA 94404
Contact:	ENVIRONMENTAL MANAGER
Contact address:	1250 L'AVENIDA MOUNTAIN VIEW, CA 94043
Contact country:	US
Contact telephone:	415-962-1400
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	RUDOLPH AND SLETTEN INC
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

RUDOLPH AND SLETTEN INC (Continued) **1000334017**

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 06S2W15E02f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 8/6/1987
Pollution Characterization Began: 11/27/1989
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 06S2W15E02F
Date Closed: 08/29/2008
EDR Link ID: 06S2W15E02F

HIST LUST SANTA CLARA:

RUDOLPH AND SLETTEN INC (Continued) **1000334017**

Region: SANTA CLARA
Region Code: 2
SCVWD ID: 06S2W15E02
Oversite Agency: SCVWD
Date Listed: 1988-01-01 00:00:00
Closed Date: 1997-04-10 00:00:00

SWEEPS UST:
Status: Active
Comp Number: 65613
Number: 1
Board Of Equalization: Not reported
Referral Date: 03-27-91
Action Date: 03-27-91
Created Date: 10-13-88
Owner Tank Id: 1
SWRCB Tank Id: 43-005-065613-000001
Tank Status: A
Capacity: 6000
Active Date: 01-06-94
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 3

Status: Active
Comp Number: 65613
Number: 1
Board Of Equalization: Not reported
Referral Date: 03-27-91
Action Date: 03-27-91
Created Date: 10-13-88
Owner Tank Id: 3
SWRCB Tank Id: 43-005-065613-000002
Tank Status: A
Capacity: 10000
Active Date: 01-06-94
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Status: Active
Comp Number: 65613
Number: 1
Board Of Equalization: Not reported
Referral Date: 03-27-91
Action Date: 03-27-91
Created Date: 10-13-88
Owner Tank Id: 2
SWRCB Tank Id: 43-005-065613-000003
Tank Status: A
Capacity: 6000
Active Date: 03-27-91
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED

RUDOLPH AND SLETTEN INC (Continued) **1000334017**

Number Of Tanks: Not reported

CA FID UST:
Facility ID: 43012186
Regulated By: UTNKA
Regulated ID: 00065613
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4159621400
Mail To: Not reported
Mailing Address: P O BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: MOUNTAIN VIEW 94043
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

FINDS:

Registry ID: 110002822599

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: 1000334017
Registry ID: 110002822599
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002822599

U170 **RUDOLPH AND SLETTEN EQUIPMENT** **CA HIST UST** **S118414930**
NNE **1250 L AVENIDA** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94042**
0.223 mi.
1179 ft. **Site 12 of 16 in cluster U**

Relative: **Lower**

Actual: **27 ft.**

HIST UST:
File Number: 00020825
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00020825.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported

RUDOLPH AND SLETTEN EQUIPMENT (Continued) **S118414930**

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:

U171 **RUDOLPH AND SLETTEN EQUIPMENT** **CA HIST UST** **U001594369**
NNE **1250 LAVENIDA ST** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94042**
0.223 mi.
1179 ft. **Site 13 of 16 in cluster U**

Relative: HIST UST:
Lower

Actual:
27 ft.

File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000065637
Facility Type:	Other
Other Type:	CONSTRUCTION YARD
Contact Name:	DAVID LINDVALL
Telephone:	4159621400
Owner Name:	RUDOLPH AND SLETTEN INC.
Owner Address:	989 EAST HILLSDALE AVE.
Owner City,St,Zip:	FOSTER CITY, CA 94404
Total Tanks:	0005
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	003
Container Num:	3
Year Installed:	Not reported

RUDOLPH AND SLETTEN EQUIPMENT (Continued) **U001594369**

Tank Capacity:	00004000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	004
Container Num:	4
Year Installed:	Not reported
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	005
Container Num:	5
Year Installed:	Not reported
Tank Capacity:	00000500
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Visual

U172 **RUDOLPH & SLETTEN INC** **CA CUPA Listings** **S121468914**
NNE **1250 LAVENIDA AV** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.223 mi.
1179 ft. **Site 14 of 16 in cluster U**

Relative: CUPA SANTA CLARA:
Lower

Facility Name:	RUDOLPH & SLETTEN INC
Region:	SANTA CLARA
PE#:	2205
Program Description:	GENERATES 100 KG YR TO <5 TONS/YR
Latitude:	37.41348
Longitude:	-122.075085
Record ID:	PR0313856
Facility ID:	FA0203452

Actual:
27 ft.

U173 **RUDOLPH & SLETTEN INC.** **CA UST** **U003941419**
NNE **1250 LA AVENIDA ST** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.223 mi.
1179 ft. **Site 15 of 16 in cluster U**

Relative: UST:
Lower

Facility ID:	1626
Permitting Agency:	MOUNTAIN VIEW, CITY OF
Latitude:	37.4152174
Longitude:	-122.0732717

Actual:
27 ft.

U174 **PEAR AVENUE AND LA AVENIDA STREET - RUDOLPH & SLET** **CA LUST** **S113804501**
NNE **1250 L'AVENIDA** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94041**
0.223 mi.
1179 ft. **Site 16 of 16 in cluster U**

Relative:
Lower

Actual:
27 ft.

LUST:

Lead Agency:	SANTA CLARA COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608501146
Global Id:	T0608501146
Latitude:	37.413664005348
Longitude:	-122.074477672577
Status:	Completed - Case Closed
Status Date:	08/29/2008
Case Worker:	Not reported
RB Case Number:	Not reported
Local Agency:	Not reported
File Location:	All Files are on GeoTracker or in the Local Agency Database
Local Case Number:	06S2W15E02f
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

LUST:

Global Id:	T0608501146
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0608501146
Action Type:	ENFORCEMENT
Date:	08/29/2008
Action:	Closure/No Further Action Letter - #80928
Global Id:	T0608501146
Action Type:	RESPONSE
Date:	11/30/2007
Action:	Soil and Water Investigation Report
Global Id:	T0608501146
Action Type:	RESPONSE
Date:	10/30/2007
Action:	Monitoring Report - Quarterly
Global Id:	T0608501146
Action Type:	Other
Date:	08/07/1987
Action:	Leak Reported
Global Id:	T0608501146
Action Type:	RESPONSE
Date:	01/30/2008
Action:	Monitoring Report - Quarterly

PEAR AVENUE AND LA AVENIDA STREET - RUDOLPH & SLETTEN (Continued) **S113804501**

Global Id: T0608501146
Action Type: RESPONSE
Date: 04/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0608501146
Action Type: RESPONSE
Date: 07/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0608501146
Action Type: RESPONSE
Date: 08/20/2007
Action: Soil and Water Investigation Workplan

Global Id: T0608501146
Action Type: ENFORCEMENT
Date: 07/25/2008
Action: Staff Letter

Global Id: T0608501146
Action Type: RESPONSE
Date: 01/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0608501146
Action Type: REMEDIATION
Date: 08/07/1987
Action: Excavation

Global Id: T0608501146
Action Type: ENFORCEMENT
Date: 04/10/1997
Action: Closure/No Further Action Letter

Global Id: T0608501146
Action Type: Other
Date: 08/07/1987
Action: Leak Discovery

Global Id: T0608501146
Action Type: RESPONSE
Date: 06/01/2007
Action: Soil and Water Investigation Report

Global Id: T0608501146
Action Type: RESPONSE
Date: 10/03/1994
Action: Soil and Water Investigation Report

Global Id: T0608501146
Action Type: RESPONSE
Date: 02/28/2007
Action: Correspondence

Global Id: T0608501146
Action Type: RESPONSE

PEAR AVENUE AND LA AVENIDA STREET - RUDOLPH & SLETTEN (Continued) **S113804501**

Date: 04/30/2007
Action: Unauthorized Release Form

Global Id: T0608501146
Action Type: RESPONSE
Date: 07/08/1994
Action: Other Workplan

Global Id: T0608501146
Action Type: ENFORCEMENT
Date: 11/06/2007
Action: Staff Letter - #70611

Global Id: T0608501146
Action Type: RESPONSE
Date: 10/30/2007
Action: Soil and Water Investigation Report

Global Id: T0608501146
Action Type: RESPONSE
Date: 05/05/1994
Action: Monitoring Report - Quarterly

Global Id: T0608501146
Action Type: RESPONSE
Date: 04/01/2008
Action: Monitoring Report - Quarterly

Global Id: T0608501146
Action Type: RESPONSE
Date: 07/01/2008
Action: Monitoring Report - Quarterly

Global Id: T0608501146
Action Type: RESPONSE
Date: 10/01/2007
Action: Remedial Progress Report

Global Id: T0608501146
Action Type: RESPONSE
Date: 05/31/1996
Action: Request for Closure

Global Id: T0608501146
Action Type: RESPONSE
Date: 06/01/2007
Action: Tank Removal Report / UST Sampling Report

Global Id: T0608501146
Action Type: RESPONSE
Date: 06/19/2007
Action: Site Assessment Report

Global Id: T0608501146
Action Type: RESPONSE
Date: 12/01/1994
Action: Monitoring Report - Quarterly

PEAR AVENUE AND LA AVENIDA STREET - RUDOLPH & SLETTEN (Continued) **S113804501**

Global Id: T0608501146
Action Type: RESPONSE
Date: 01/01/2008
Action: Monitoring Report - Quarterly

Global Id: T0608501146
Action Type: RESPONSE
Date: 07/23/2008
Action: Other Report / Document

Global Id: T0608501146
Action Type: RESPONSE
Date: 04/30/2007
Action: Unauthorized Release Form

Global Id: T0608501146
Action Type: RESPONSE
Date: 04/18/1994
Action: Soil and Water Investigation Report

Global Id: T0608501146
Action Type: RESPONSE
Date: 12/13/1993
Action: Soil and Water Investigation Report

Global Id: T0608501146
Action Type: ENFORCEMENT
Date: 07/27/2007
Action: Staff Letter - #70727

Global Id: T0608501146
Action Type: RESPONSE
Date: 07/01/1995
Action: Monitoring Report - Quarterly

Global Id: T0608501146
Action Type: RESPONSE
Date: 07/13/1994
Action: Monitoring Report - Quarterly

Global Id: T0608501146
Action Type: RESPONSE
Date: 10/03/1994
Action: Monitoring Report - Quarterly

Global Id: T0608501146
Action Type: RESPONSE
Date: 03/01/1995
Action: Monitoring Report - Quarterly

Global Id: T0608501146
Action Type: RESPONSE
Date: 07/23/2008
Action: Other Report / Document

Global Id: T0608501146
Action Type: RESPONSE

PEAR AVENUE AND LA AVENIDA STREET - RUDOLPH & SLETTEN (Continued) **S113804501**

Date: 10/01/2007
Action: CAP/RAP - Other Report

Global Id: T0608501146
Action Type: RESPONSE
Date: 08/04/2008
Action: Correspondence

Global Id: T0608501146
Action Type: RESPONSE
Date: 07/13/1994
Action: Monitoring Report - Quarterly

Global Id: T0608501146
Action Type: RESPONSE
Date: 01/05/1995
Action: Monitoring Report - Quarterly

Global Id: T0608501146
Action Type: RESPONSE
Date: 11/01/1995
Action: Monitoring Report - Quarterly

Global Id: T0608501146
Action Type: ENFORCEMENT
Date: 05/18/2007
Action: Notice of Responsibility - #70815

Global Id: T0608501146
Action Type: ENFORCEMENT
Date: 11/27/1989
Action: Notice of Responsibility - #40181

Global Id: T0608501146
Action Type: ENFORCEMENT
Date: 06/28/2007
Action: Staff Letter - #70826

Global Id: T0608501146
Action Type: Other
Date: 08/07/1987
Action: Leak Stopped

Global Id: T0608501146
Action Type: RESPONSE
Date: 07/25/2007
Action: Interim Remedial Action Plan

Global Id: T0608501146
Action Type: RESPONSE
Date: 10/19/1994
Action: Verbal Communication

Global Id: T0608501146
Action Type: RESPONSE
Date: 04/01/1994
Action: Other Workplan

PEAR AVENUE AND LA AVENIDA STREET - RUDOLPH & SLETTEN (Continued) **S113804501**

Global Id: T0608501146
Action Type: RESPONSE
Date: 08/29/2008
Action: Well Destruction Report

Global Id: T0608501146
Action Type: ENFORCEMENT
Date: 10/29/2007
Action: Staff Letter - #709201

LUST:
Global Id: T0608501146
Status: Completed - Case Closed
Status Date: 04/10/1997

Global Id: T0608501146
Status: Completed - Case Closed
Status Date: 08/29/2008

Global Id: T0608501146
Status: Open - Case Begin Date
Status Date: 08/06/1987

Global Id: T0608501146
Status: Open - Reopen Case
Status Date: 05/18/2007

Global Id: T0608501146
Status: Open - Site Assessment
Status Date: 08/06/1987

Global Id: T0608501146
Status: Open - Site Assessment
Status Date: 11/27/1989

Global Id: T0608501146
Status: Open - Site Assessment
Status Date: 06/08/2007

T175 **CALIFORNIA CUSTOM CYCLES** **CA CUPA Listings** **S121472538**
ESE **939 TERRA BELLA AV A** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.224 mi.
1183 ft. **Site 5 of 14 in cluster T**

Relative:
Higher

Actual:
39 ft.

CUPA SANTA CLARA:
Facility Name: CALIFORNIA CUSTOM CYCLES
Region: SANTA CLARA
PE#: 2201
Program Description: GENERATES WASTE OIL ONLY
Latitude: 37.408333
Longitude: -122.071983
Record ID: PR0365761
Facility ID: FA0254510

T176
ESE
1/8-1/4
0.224 mi.
1183 ft.

MERCEDES WERKSTATT
939 TERRA BELLA AVENUE UNIT B
MOUNTAIN VIEW, CA 94043

Site 6 of 14 in cluster T

CA CERS HAZ WASTE **S121743274**
CA CERS **N/A**

Relative:
Higher

Actual:
39 ft.

CERS HAZ WASTE:

Site ID:	134285
CERS ID:	10356568
CERS Description:	Hazardous Waste Generator

Violations:

Site ID:	134285
Site Name:	Mercedes Werkstatt
Violation Date:	09-07-2016
Citation:	40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.31
Violation Description:	Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.
Violation Notes:	Observed free liquids in secondary containment area with used oil. Keep area dry and clean up spills when they occur.
Violation Division:	Santa Clara County Environmental Health
Violation Program:	HW
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-20-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-07-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Onsite for routine inspection, noted the following: -Storage containers are in good condition with labels -Emergency Information is posted, names are fading, please update -Manifests available for review in the office Questions regarding this report, please contact Jeffrey M. Higbee
Eval Division:	Santa Clara County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-05-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No Violations.
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

MERCEDES WERKSTATT (Continued) **S121743274**

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Santa Clara County Environmental Health
Entity Title:	Not reported
Affiliation Address:	1555 Berger Drive, Suite 300
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95112-2716
Affiliation Phone:	(408) 918-3400

Affiliation Type Desc:	Document Preparer
Entity Name:	Paul Prokopec
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:	Paul Prokopec
Entity Title:	Not reported
Affiliation Address:	939 Terra Bella Ave., Unit B
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94043
Affiliation Phone:	(650) 694-4926

Affiliation Type Desc:	Identification Signer
Entity Name:	Paul Prokopec
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
Entity Name:	Paul Prokopec
Entity Title:	Not reported
Affiliation Address:	939 Terra Bella Ave., Unit B
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	(650) 694-4926

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	939 Terra Bella Ave., Unit B
Affiliation City:	Mountain View
Affiliation State:	CA

MERCEDES WERKSTATT (Continued) **S121743274**

Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Paul Prokopec
Entity Title:	Not reported
Affiliation Address:	278 Monroe Dr. #12
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94040
Affiliation Phone:	(650) 917-8584
Affiliation Type Desc:	Operator
Entity Name:	Paul Prokopec
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:	(650) 694-4926
Affiliation Type Desc:	Parent Corporation
Entity Name:	Mercedes Werkstatt
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

CERS TANKS:

Site ID:	134285
CERS ID:	10356568
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	134285
Site Name:	Mercedes Werkstatt
Violation Date:	09-07-2016
Citation:	40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.31
Violation Description:	Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.
Violation Notes:	Observed free liquids in secondary containment area with used oil. Keep area dry and clean up spills when they occur.
Violation Division:	Santa Clara County Environmental Health
Violation Program:	HW
Violation Source:	CERS

MERCEDES WERKSTATT (Continued) **S121743274**

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-20-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-07-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Onsite for routine inspection, noted the following: -Storage containers are in good condition with labels -Emergency Information is posted, names are fading, please update -Manifests available for review in the office Questions regarding this report, please contact Jeffrey M. Higbee
Eval Division:	Santa Clara County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-05-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No Violations.
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Santa Clara County Environmental Health
Entity Title:	Not reported
Affiliation Address:	1555 Berger Drive, Suite 300
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95112-2716
Affiliation Phone:	(408) 918-3400

Affiliation Type Desc:	Document Preparer
Entity Name:	Paul Prokopec
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:	Paul Prokopec
Entity Title:	Not reported

MERCEDES WERKSTATT (Continued) **S121743274**

Affiliation Address:	939 Terra Bella Ave., Unit B
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94043
Affiliation Phone:	(650) 694-4926
Affiliation Type Desc:	Identification Signer
Entity Name:	Paul Prokopec
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
Entity Name:	Paul Prokopec
Entity Title:	Not reported
Affiliation Address:	939 Terra Bella Ave., Unit B
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	(650) 694-4926
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	939 Terra Bella Ave., Unit B
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Paul Prokopec
Entity Title:	Not reported
Affiliation Address:	278 Monroe Dr. #12
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94040
Affiliation Phone:	(650) 917-8584
Affiliation Type Desc:	Operator
Entity Name:	Paul Prokopec
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:	(650) 694-4926

MERCEDES WERKSTATT (Continued) **S121743274**

Affiliation Type Desc:	Parent Corporation
Entity Name:	Mercedes Werkstatt
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

T177 **CALVAC PAVING & SEALING CO** **CA CUPA Listings** **S121469079**
ESE **939 TERRA BELLA** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.224 mi.
1183 ft. **Site 7 of 14 in cluster T**

Relative: **Higher**
Actual: **39 ft.**

CUPA SANTA CLARA:

Facility Name:	CALVAC PAVING & SEALING CO
Region:	SANTA CLARA
PE#:	2201
Program Description:	GENERATES WASTE OIL ONLY
Latitude:	37.408333
Longitude:	-122.071983
Record ID:	PR0313187
Facility ID:	FA0204345

T178 **COMMERCIAL PRINTING** **CA CUPA Listings** **S121472835**
ESE **939 TERRA BELLA AV A** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.224 mi.
1183 ft. **Site 8 of 14 in cluster T**

Relative: **Higher**
Actual: **39 ft.**

CUPA SANTA CLARA:

Facility Name:	COMMERCIAL PRINTING
Region:	SANTA CLARA
PE#:	2271
Program Description:	SILVER WASTE ONLY <100 KG/MO
Latitude:	37.408333
Longitude:	-122.071983
Record ID:	PR0374045
Facility ID:	FA0256150

T179 **AUTO MOTOR UND SPORT INC** **CA CUPA Listings** **S121471935**
ESE **939 TERRA BELLA AV** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.224 mi.
1183 ft. **Site 9 of 14 in cluster T**

Relative: **Higher**
Actual: **39 ft.**

CUPA SANTA CLARA:

Facility Name:	AUTO MOTOR UND SPORT INC
Region:	SANTA CLARA
PE#:	2205
Program Description:	GENERATES 100 KG YR TO <5 TONS/YR
Latitude:	37.408333

AUTO MOTOR UND SPORT INC (Continued) **S121471935**

Longitude: -122.071983
Record ID: PR0365755
Facility ID: FA0251639

T180 **MERCEDES WERKSTATT** **CA CUPA Listings** **S112346143**
ESE **939 TERRA BELLA AV B** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.224 mi.
1183 ft. **Site 10 of 14 in cluster T**

Relative: **Higher**
Actual: **39 ft.**

CUPA SANTA CLARA:
Facility Name: MERCEDES WERKSTATT
Region: SANTA CLARA
PE#: 2205
Program Description: GENERATES 100 KG YR TO <5 TONS/YR
Latitude: 37.408333
Longitude: -122.071983
Record ID: PR0367776
Facility ID: FA0252646

T181 **PEDRO'S AUTO CLINIC** **CA CUPA Listings** **S121472544**
ESE **939 TERRA BELLA AV B** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.224 mi.
1183 ft. **Site 11 of 14 in cluster T**

Relative: **Higher**
Actual: **39 ft.**

CUPA SANTA CLARA:
Facility Name: PEDRO'S AUTO CLINIC
Region: SANTA CLARA
PE#: 2205
Program Description: GENERATES 100 KG YR TO <5 TONS/YR
Latitude: 37.408333
Longitude: -122.071983
Record ID: PR0365648
Facility ID: FA0254542

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182 **SPECTRA-PHYSICS INC** **CA CUPA Listings** **S121474225**
WNW **1330 TERRA BELLA AV 15** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.234 mi.
1234 ft.

Relative: **Lower**
Actual: **34 ft.**

CUPA SANTA CLARA:
Facility Name: SPECTRA-PHYSICS INC
Region: SANTA CLARA
PE#: 2205
Program Description: GENERATES 100 KG YR TO <5 TONS/YR
Latitude: 37.4107879
Longitude: -122.082291
Record ID: PR0389721
Facility ID: FA0264353

T183
East
1/8-1/4
0.234 mi.
1235 ft.

Relative:
Higher

Actual:
39 ft.

FOOTHILL DISPOSAL CO
935 TERRA BELLA AVE
MOUNTAIN VIEW, CA 94043

Site 12 of 14 in cluster T

Database(s): RCRA-SQG, CA SWRCY, FINDS, ECHO, CA CUPA Listings, CA HAZNET, CA NPDES, CA WDS, CA CIWQS

EDR ID Number: 1000857641
EPA ID Number: CAD983670845

RCRA-SQG:

Date form received by agency:	07/07/1993
Facility name:	FOOTHILL DISPOSAL CO
Facility address:	935 TERRA BELLA AVE MOUNTAIN VIEW, CA 94043
EPA ID:	CAD983670845
Contact:	JOHN CANDAU
Contact address:	935 TERRA BELLA AVE MOUNTAIN VIEW, CA 94043
Contact country:	US
Contact telephone:	415-967-3034
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	MOUNTAIN VIEW CITY OF
Owner/operator address:	1000 VILLA ST MOUNTAIN VIEW, CA 94043
Owner/operator country:	Not reported
Owner/operator telephone:	415-903-6378
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No

FOOTHILL DISPOSAL CO (Continued) **1000857641**

Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

SWRCY:
Reg Id: 27968
Cert Id: RC2321
Mailing Address: 935 Terra Bella Ave
Mailing City: Mountain View
Mailing State: CA
Mailing Zip Code: 94043
Website: Not reported
Email: Not reported
Phone Number: (650) 903-3579
Rural: N
Operation Begin Date: 04/01/1988
Aluminium: Y
Glass: Y
Plastic: Y
Bimetal: Y
Hours of Operation: Mon Closed; Tue - Sat 9:00 am - 4:00 pm; Sun Closed
Organization ID: 18924
Organization Name: Recology Mountain View

FINDS:

Registry ID: 110002901003

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000857641
Registry ID: 110002901003
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002901003

CUPA SANTA CLARA:
Facility Name: RECOLOGY MOUNTAIN VIEW
Region: SANTA CLARA
PE#: 2240
Program Description: GENERATES < 10 GAL/YR

FOOTHILL DISPOSAL CO (Continued) **1000857641**

Latitude: 37.4081544
Longitude: -122.0713638
Record ID: PR0422732
Facility ID: FA0281633

HAZNET:
Facility Name: RECOLOGY MOUNTAIN VIEW
envid: 1000857641
Year: 2017
GEPAID: CAD983670845
Contact: CHRIS GIBSON
Telephone: 4152863523
Mailing Name: Not reported
Mailing Address: 935 TERRA BELLA AVE
Mailing City,St,Zip: MOUNTAIN VIEW, CA 940431827
Gen County: Santa Clara
TSD EPA ID: UTD981552177
TSD County: 99
Waste Category: Household waste
Disposal Method: Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: 0.077
Cat Decode: Household waste
Method Decode: Incineration--Thermal Destruction Other Than Use As A Fuel
Facility County: Santa Clara

envid: 1000857641
Year: 2017
GEPAID: CAD983670845
Contact: CHRIS GIBSON
Telephone: 4152863523
Mailing Name: Not reported
Mailing Address: 935 TERRA BELLA AVE
Mailing City,St,Zip: MOUNTAIN VIEW, CA 940431827
Gen County: Santa Clara
TSD EPA ID: UTD981552177
TSD County: 99
Waste Category: Household waste
Disposal Method: Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: 0.077
Cat Decode: Household waste
Method Decode: Incineration--Thermal Destruction Other Than Use As A Fuel
Facility County: Santa Clara

envid: 1000857641
Year: 2017
GEPAID: CAD983670845
Contact: CHRIS GIBSON
Telephone: 4152863523
Mailing Name: Not reported
Mailing Address: 935 TERRA BELLA AVE
Mailing City,St,Zip: MOUNTAIN VIEW, CA 940431827
Gen County: Santa Clara
TSD EPA ID: UTD981552177
TSD County: 99
Waste Category: Household waste
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

FOOTHILL DISPOSAL CO (Continued) **1000857641**

Tons: 0.011
Cat Decode: Household waste
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Santa Clara

envid: 1000857641
Year: 2017
GEPAID: CAD983670845
Contact: CHRIS GIBSON
Telephone: 4152863523
Mailing Name: Not reported
Mailing Address: 935 TERRA BELLA AVE
Mailing City,St,Zip: MOUNTAIN VIEW, CA 940431827
Gen County: Santa Clara
TSD EPA ID: UTD981552177
TSD County: 99
Waste Category: Household waste
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.011
Cat Decode: Household waste
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Santa Clara

envid: 1000857641
Year: 2015
GEPAID: CAD983670845
Contact: CHRIS GIBSON
Telephone: 4152863523
Mailing Name: Not reported
Mailing Address: 935 TERRA BELLA AVE
Mailing City,St,Zip: MOUNTAIN VIEW, CA 940431827
Gen County: Santa Clara
TSD EPA ID: CAD059494310
TSD County: Santa Clara
Waste Category: Household waste
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.4625
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Santa Clara

Click this hyperlink while viewing on your computer to access
47 additional CA_HAZNET: record(s) in the EDR Site Report.

NPDES:
Facility Status: Active
NPDES Number: CAS000001
Region: 2
Agency Number: 0
Regulatory Measure ID: 183779
Place ID: Not reported
Order Number: 97-03-DWQ
WDID: 2 43I002153

FOOTHILL DISPOSAL CO (Continued) **1000857641**

Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/30/1992
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	935 Terra Bella Ave
Discharge Name:	Recology Mountain View
Discharge City:	Mountain View
Discharge State:	California
Discharge Zip:	94043
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	183779
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 43I002153
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/30/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Recology Mountain View
Discharge Address:	935 Terra Bella Ave
Discharge City:	Mountain View
Discharge State:	California
Discharge Zip:	94043
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

FOOTHILL DISPOSAL CO (Continued) **1000857641**

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:	2
Regulatory Measure ID:	183779
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 43I002153
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

FOOTHILL DISPOSAL CO (Continued) **1000857641**

Received Date:	05/09/2008
Processed Date:	03/30/1992
Status:	Active
Status Date:	03/30/1992
Place Size:	2
Place Size Unit:	Acres
Contact:	John Zirelli
Contact Title:	GM
Contact Phone:	408-368-1776
Contact Phone Ext:	Not reported
Contact Email:	jzirelli@recology.com
Operator Name:	Recology Mountain View
Operator Address:	935 Terra Bella Ave
Operator City:	Mountain View
Operator State:	California
Operator Zip:	94043
Operator Contact:	John Zirelli
Operator Contact Title:	GM
Operator Contact Phone:	408-368-1776
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	jzirelli@recology.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	South San Francisco Bay
Certifier:	Kevin Chiapello
Certifier Title:	General Manager
Certification Date:	23-JUN-15
Primary Sic:	4212-Local Trucking Without Storage
Secondary Sic:	5093-Scrap and Waste Materials
Tertiary Sic:	Not reported

FOOTHILL DISPOSAL CO (Continued) **1000857641**

Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	2 43I002153
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	03/30/1992
Operator Name:	Recology Mountain View
Operator Address:	935 Terra Bella Ave
Operator City:	Mountain View
Operator State:	California
Operator Zip:	94043

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	183779
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 43I002153
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/30/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Recology Mountain View
Discharge Address:	935 Terra Bella Ave
Discharge City:	Mountain View
Discharge State:	California
Discharge Zip:	94043
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

FOOTHILL DISPOSAL CO (Continued) **1000857641**

Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	183779
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 43I002153
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported

FOOTHILL DISPOSAL CO (Continued) **1000857641**

Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	03/30/1992
Status:	Active
Status Date:	03/30/1992
Place Size:	2
Place Size Unit:	Acres
Contact:	John Zirelli
Contact Title:	GM
Contact Phone:	408-368-1776
Contact Phone Ext:	Not reported
Contact Email:	jzirelli@recology.com
Operator Name:	Recology Mountain View
Operator Address:	935 Terra Bella Ave
Operator City:	Mountain View
Operator State:	California
Operator Zip:	94043
Operator Contact:	John Zirelli
Operator Contact Title:	GM
Operator Contact Phone:	408-368-1776
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	jzirelli@recology.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N

FOOTHILL DISPOSAL CO (Continued) **1000857641**

Receiving Water Name:	South San Francisco Bay
Certifier:	Kevin Chiapello
Certifier Title:	General Manager
Certification Date:	23-JUN-15
Primary Sic:	4212-Local Trucking Without Storage
Secondary Sic:	5093-Scrap and Waste Materials
Tertiary Sic:	Not reported

WDS:

Facility ID:	San Francisco Bay 43I002153
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	2
Facility Telephone:	4085887233
Facility Contact:	JOHN CANDAU
Agency Name:	FOOTHILL DISP CO INC
Agency Address:	935 Terra Bella Ave
Agency City,St,Zip:	Mountain View 940431827
Agency Contact:	STEVE FRAGUGLIA
Agency Telephone:	4085887224
Agency Type:	Private
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

FOOTHILL DISPOSAL CO (Continued) **1000857641**

CIWQS:

Agency:	Recology Mountain View
Agency Address:	935 Terra Bella Ave, Mountain View, CA 94043
Place/Project Type:	Industrial - Local Trucking Without Storage
SIC/NAICS:	Multiple
Region:	2
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	2 43I002153
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	03/30/1992
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	37.40845
Longitude:	-122.07176

T184 **RECOLOGY MOUNTAIN VIEW** **CA CERS HAZ WASTE** **S121775312**
East **935 TERRA BELLA AVENUE** **CA CERS** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.234 mi.
1235 ft. **Site 13 of 14 in cluster T**

Relative:
Higher

Actual:
39 ft.

CERS HAZ WASTE:

Site ID:	400521
CERS ID:	10356565
CERS Description:	Hazardous Waste Generator

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-20-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Mountain View Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Affiliation:

Affiliation Type Desc:	Document Preparer
Entity Name:	Julia Mangin
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

RECOLOGY MOUNTAIN VIEW (Continued) **S121775312**

Affiliation Type Desc:	Operator
Entity Name:	John Zirelli
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(408) 368-1776

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	935 Terra Bella Ave.
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	Not reported

Affiliation Type Desc:	CUPA District
Entity Name:	Santa Clara County Environmental Health
Entity Title:	Not reported
Affiliation Address:	1555 Berger Drive, Suite 300
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95112-2716
Affiliation Phone:	(408) 918-3400

Affiliation Type Desc:	Environmental Contact
Entity Name:	Chris Gibson
Entity Title:	Not reported
Affiliation Address:	935 Terra Bella Ave.
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	(415) 286-3523

Affiliation Type Desc:	Identification Signer
Entity Name:	John Zirelli
Entity Title:	General 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:	Recology Mountain View
Entity Title:	Not reported
Affiliation Address:	935 Terra Bella Ave.
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	United States

RECOLOGY MOUNTAIN VIEW (Continued) **S121775312**

Affiliation Zip: 94043
Affiliation Phone: (650) 967-3034

Affiliation Type Desc: Parent Corporation
Entity Name: Recology Mountain View
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: Renault & Handley
Entity Title: Not reported
Affiliation Address: 625 Ellis Street, Suite 101
Affiliation City: Mountain View
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94043
Affiliation Phone: (650) 321-3040

CERS TANKS:
Site ID: 400521
CERS ID: 10356565
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-20-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Mountain View Fire Department
Eval Program: HMRRP
Eval Source: CERS

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Julia Mangin
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: John Zirelli
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported

RECOLOGY MOUNTAIN VIEW (Continued) **S121775312**

Affiliation Zip:	Not reported
Affiliation Phone:	(408) 368-1776
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	935 Terra Bella Ave.
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	Santa Clara County Environmental Health
Entity Title:	Not reported
Affiliation Address:	1555 Berger Drive, Suite 300
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95112-2716
Affiliation Phone:	(408) 918-3400
Affiliation Type Desc:	Environmental Contact
Entity Name:	Chris Gibson
Entity Title:	Not reported
Affiliation Address:	935 Terra Bella Ave.
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94043
Affiliation Phone:	(415) 286-3523
Affiliation Type Desc:	Identification Signer
Entity Name:	John Zirelli
Entity Title:	General 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:	Recology Mountain View
Entity Title:	Not reported
Affiliation Address:	935 Terra Bella Ave.
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94043
Affiliation Phone:	(650) 967-3034
Affiliation Type Desc:	Parent Corporation
Entity Name:	Recology Mountain View
Entity Title:	Not reported
Affiliation Address:	Not reported

RECOLOGY MOUNTAIN VIEW (Continued) **S121775312**

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:	Renault & Handley
Entity Title:	Not reported
Affiliation Address:	625 Ellis Street, Suite 101
Affiliation City:	Mountain View
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94043
Affiliation Phone:	(650) 321-3040

T185 **SCC HHW SITE-FOOTHILL DISPOSAL** **CA CUPA Listings** **S121472002**
East **935 TERRA BELLA AV** **N/A**
1/8-1/4 **MOUNTAIN VIEW, CA 94043**
0.234 mi.
1235 ft. **Site 14 of 14 in cluster T**

Relative: **Higher**
Actual: **39 ft.**

CUPA SANTA CLARA:

Facility Name:	SCC HHW SITE-FOOTHILL DISPOSAL
Region:	SANTA CLARA
PE#:	2265
Program Description:	PBR HHW TEMPORARY FACILITY
Latitude:	37.408333
Longitude:	-122.071932
Record ID:	PR0366181
Facility ID:	FA0251897

---

186 **GOOGLE - 1400 NORTH SHORELINE BOULEVARD** **CA CPS-SLIC** **S116741943**
NNW **1400 NORTH SHORELINE BOULEVARD** **CA CERS** **N/A**
1/4-1/2 **MOUNTATIN VIEW, CA 94943**
0.282 mi.
1490 ft.

Relative: **Lower**
Actual: **26 ft.**

CPS-SLIC:

Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	07/11/2018
Global Id:	T10000006049
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	Not reported
Latitude:	37.4142307
Longitude:	-122.079075
Case Type:	Cleanup Program Site
Case Worker:	RWP
Local Agency:	Not reported
RB Case Number:	43S1172
File Location:	All Files are on GeoTracker or in the Local Agency Database
Potential Media Affected:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Dichloroethene (DCE), Trichloroethylene (TCE), Vinyl chloride
Site History:	The project is a redevelopment property within the

GOOGLE - 1400 NORTH SHORELINE BOULEVARD (Continued) **S116741943**

Teledyne-Spectraphysics (T-S) plume with underlying groundwater probably impacted by the upgradient T-S source properties. The developer plans to construct the building wiht a vapor intrusion mitigation system (VIMS) and water barrier. Indoor air testing will be conducted to verify that the VIMS is working as designed.

Click here to access the California GeoTracker records for this facility:

CERS TANKS:

Site ID:	196389
CERS ID:	T10000006049
CERS Description:	Cleanup Program Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Roger Papler - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY STREET, SUITE 1500
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

187
ESE
1/4-1/2
0.284 mi.
1502 ft.

SIMMONS, RICHARD L & CONN
760 SAN PABLO
MOUNTAIN VIEW, CA 94043

CA HIST CORTESE **S105025098**
N/A

Relative:
Higher

Actual:
43 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	18
Reg By:	WBC&D
Reg Id:	6A189103N80

188
North
1/4-1/2
0.289 mi.
1524 ft.

GOODSELL & VOCKE
1401 N SHORELINE BLVD
MOUNTAIN VIEW, CA 94041

CA LUST **S103880839**
CA HIST LUST **N/A**
CA CERS

Relative:
Lower

Actual:
24 ft.

LUST:

Lead Agency:	SANTA CLARA COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608502118
Global Id:	T0608502118
Latitude:	37.414346
Longitude:	-122.076902
Status:	Completed - Case Closed
Status Date:	11/19/1997
Case Worker:	UST
RB Case Number:	Not reported
Local Agency:	SANTA CLARA COUNTY LOP
File Location:	All Files are on GeoTracker or in the Local Agency Database

GOODSELL & VOCKE (Continued) **S103880839**

Local Case Number: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Stoddard solvent / Mineral Spriits / Distillates
Site History: Not reported

LUST:
Global Id: T0608502118
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

Global Id: T0608502118
Contact Type: Local Agency Caseworker
Contact Name: UST CASE WORKER
Organization Name: SANTA CLARA COUNTY LOP
Address: 1555 Berger Drive, Suite 300
City: SAN JOSE
Email: Not reported
Phone Number: 4089183400

LUST:
Global Id: T0608502118
Action Type: Other
Date: 04/14/1987
Action: Leak Reported

Global Id: T0608502118
Action Type: RESPONSE
Date: 11/19/1997
Action: Other Report / Document

Global Id: T0608502118
Action Type: ENFORCEMENT
Date: 06/09/1997
Action: Notice of Responsibility - #40180

Global Id: T0608502118
Action Type: ENFORCEMENT
Date: 11/19/1997
Action: Closure/No Further Action Letter

LUST:
Global Id: T0608502118
Status: Completed - Case Closed
Status Date: 11/19/1997

Global Id: T0608502118
Status: Open - Case Begin Date
Status Date: 03/11/1987

Global Id: T0608502118
Status: Open - Site Assessment
Status Date: 03/11/1987

GOODSELL & VOCKE (Continued) **S103880839**

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 06S2W15D05f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 3/11/1987
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 06S2W15D05F
Date Closed: 11/19/1997
EDR Link ID: 06S2W15D05F

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 06S2W15D05
Oversite Agency: SCVWD
Date Listed: 1997-05-30 00:00:00
Closed Date: 1997-11-19 00:00:00

CERS TANKS:
Site ID: 204583
CERS ID: T0608502118
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: UST CASE WORKER - SANTA CLARA COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: SAN JOSE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 4089183400

Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

189
South
1/4-1/2
0.292 mi.
1542 ft.

LGM MANUFACTURING
723 STIERLIN ROAD
MOUNTAIN VIEW, CA 94040

CA RESPONSE
CA ENVIROSTOR
CA HIST Cal-Sites
CA CERS

S102008397
N/A

Relative:
Higher

Actual:
47 ft.

RESPONSE:

Facility ID:	43390003
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	0.25
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Site Code:	Not reported
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	24
Senate:	13
Special Program Status:	Not reported
Status:	Certified
Status Date:	01/01/1984
Restricted Use:	NO
Funding:	Responsible Party
Latitude:	37.40430
Longitude:	-122.0771
APN:	153-24-019, 15324019
Past Use:	MANUFACTURING - ELECTRONIC
Potential COC :	Copper and compounds Fluorine (soluble fluoride
Confirmed COC:	Copper and compounds Fluorine (soluble fluoride
Potential Description:	SOIL
Alias Name:	153-24-019
Alias Type:	APN
Alias Name:	15324019
Alias Type:	APN
Alias Name:	110002650033
Alias Type:	EPA (FRS #)
Alias Name:	43390003
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	01/06/1984
Comments:	In February of 1983, DHS directed LGM to remove the contaminated soil from on and off its property. Several months later, LGM declared bankruptcy and went out of business. In the latter part of 1983 and early 1984, chemicals and contaminated soil were removed from the LGM storage area and an adjacent condominium complex. Post-excavation confirmation samples were taken for fluoride and copper. Detected levels were below health-based risk goals considered safe for residential use.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	01/17/1984

LGM MANUFACTURING (Continued) **S102008397**

Comments: Certified Site cleanup.

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:
Facility ID: 43390003
Status: Certified
Status Date: 01/01/1984
Site Code: Not reported
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 0.25
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Assembly: 24
Senate: 13
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.40430
Longitude: -122.0771
APN: 153-24-019, 15324019
Past Use: MANUFACTURING - ELECTRONIC
Potential COC: Copper and compounds Fluorine (soluble fluoride
Confirmed COC: Copper and compounds Fluorine (soluble fluoride
Potential Description: SOIL
Alias Name: 153-24-019
Alias Type: APN
Alias Name: 15324019
Alias Type: APN
Alias Name: 110002650033
Alias Type: EPA (FRS #)
Alias Name: 43390003
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 01/06/1984
Comments: In February of 1983, DHS directed LGM to remove the contaminated soil from on and off its property. Several months later, LGM declared bankruptcy and went out of business. In the latter part of 1983 and early 1984, chemicals and contaminated soil were removed from the LGM

LGM MANUFACTURING (Continued) **S102008397**

storage area and an adjacent condominium complex. Post-excavation confirmation samples were taken for fluoride and copper. Detected levels were below health-based risk goals considered safe for residential use.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 01/17/1984
Comments: Certified Site cleanup.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Calsite:
Region: BERKELEY
Facility ID: 43390003
Facility Type: RP
Type: RESPONSIBLE PARTY
Branch: NC
Branch Name: NORTH COAST
File Name: Not reported
State Senate District: 01011984
Status: CERTIFIED AS HAVING BEEN REMEDIED SATISFACTORILY UNDER DTSC OVERSIGHT
Status Name: CERTIFIED
Lead Agency: N/A
NPL: Not Listed
SIC Code: 39
SIC Name: MISCELLANEOUS MANUFACTURING INDUSTRIES
Access: Not reported
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Not reported
Staff Member Responsible for Site: HATIQEE
Supervisor Responsible for Site: Not reported
Region Water Control Board: Not reported
Region Water Control Board Name: Not reported
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: 22
State Senate District Code: 13
Facility ID: 43390003
Activity: CERT
Activity Name: CERTIFICATION
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported

LGM MANUFACTURING (Continued) **S102008397**

Revised Due Date:	Not reported
Comments Date:	01011984
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	CERT
Definition of Status:	CERTIFIED
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	43390003
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	01011984
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	CERT
Definition of Status:	CERTIFIED
Liquids Removed (Gals):	1
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Alternate Address:	723 STIERLIN ROAD
Alternate City,St,Zip:	MOUNTAIN VIEW, CA 94040
Background Info:	LGM Manufacturing (LGM) manufactured printed circuit boards from 1969 to 1983. Chemicals used at the Site included ammonia, etch acids, brighteners, fusing oil, trichloroethylene, copper with formaldehyde, and methylene chloride. Chemical wastes were stored in drums and containers in a yard behind the LGM warehouse.
Comments Date:	01011984
Comments:	Completed RA. In February of 1983, DHS directed LGM to remove
Comments Date:	01011984
Comments:	the contaminated soil from on and off its property. Several
Comments Date:	01011984
Comments:	months later, LGM declared bankruptcy and went out of business.
Comments Date:	01011984

LGM MANUFACTURING (Continued) **S102008397**

Comments:	In the latter part of 1983 and early 1984, chemicals and
Comments Date:	01011984
Comments:	contaminated soil were removed from the LGM storage area and the
Comments Date:	01011984
Comments:	condominium complex by the former president of LGM
Comments Date:	01011984
Comments:	Manufacturing. Post-excavation confirmation samples were taken
Comments Date:	01011984
Comments:	for fluoride and copper. Detected levels were below
Comments Date:	01011984
Comments:	health-based risk goals considered safe for residential
Comments Date:	01011984
Comments:	use. Certified Site.
Comments Date:	10311982
Comments:	Inspected the Site in response to a complaint of dying
Comments Date:	10311982
Comments:	vegetation at a condominium complex adjacent to the LGM
Comments Date:	10311982
Comments:	property. Drums with residual hazardous materials were washed in
Comments Date:	10311982
Comments:	the storage area behind the LGM warehouse. Wash water from these
Comments Date:	10311982
Comments:	drums ran off-site. Soil and water samples were collected from
Comments Date:	10311982
Comments:	the storage area and the condominium complex. Fluoride and
Comments Date:	10311982
Comments:	copper were detected at elevated levels in samples, and the pH
Comments Date:	10311982
Comments:	of most samples was at acidic levels.
ID Name:	Not reported
ID Value:	Not reported
Alternate Name:	LGM MANUFACTURING
Alternate Name:	Not reported
Special Programs Code:	Not reported
Special Programs Name:	Not reported

CERS TANKS:

Site ID:	339299
CERS ID:	43390003
CERS Description:	State Response

Affiliation:

Affiliation Type Desc:	Supervisor
Entity Name:	MARK PIROS
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

W190 **KAISER SAND & GRAVEL** **CA LUST** **S105025084**
ENE **1065 L'AVENIDA AVE** **CA CPS-SLIC** **N/A**
1/4-1/2 **MOUNTAIN VIEW, CA 94043** **CA HIST LUST**
0.311 mi. **CA HIST CORTESE**
1641 ft. **Site 1 of 3 in cluster W**

Relative:
Lower

Actual:
29 ft.

LUST REG 2:

Region:	2
Facility Id:	Not reported
Facility Status:	Case Closed
Case Number:	06S2W15F01f
How Discovered:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Date Leak Confirmed:	Not reported
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	12/27/1985
Pollution Characterization Began:	4/23/1989
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

SLIC REG 2:

Region:	2
Facility ID:	SL18292713
Facility Status:	Not reported
Date Closed:	Not reported
Local Case #:	Not reported
How Discovered:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Date Confirmed:	Not reported
Date Prelim Site Assmnt Workplan Submitted:	Not reported
Date Preliminary Site Assessment Began:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

HIST LUST SANTA CLARA:

Region:	SANTA CLARA
Region Code:	2
SCVWD ID:	06S2W15F01
Oversite Agency:	SCVWD
Date Listed:	1986-01-01 00:00:00
Closed Date:	2001-04-03 00:00:00

HIST CORTESE:

Region:	CORTESE
Facility County Code:	43
Reg By:	LTNKA
Reg Id:	43-0772

W191 **RAISCH COMPANY** **CA HIST CORTESE** **S105025085**
ENE **1105 L AVENIDA** **N/A**
1/4-1/2 **MOUNTAIN VIEW, CA**
0.311 mi.
1641 ft. **Site 2 of 3 in cluster W**

Relative: **Lower**
Actual: **29 ft.**

HIST CORTESE:
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-1095

W192 **KAISER** **CA LUST** **S101594532**
ENE **1065 L'AVENIDA** **CA SWEEPS UST** **N/A**
1/4-1/2 **MOUNTAIN VIEW, CA 94040** **CA FID UST**
0.311 mi. **CA CERS**
1641 ft. **Site 3 of 3 in cluster W**

Relative: **Lower**
Actual: **29 ft.**

LUST:
Lead Agency: SANTA CLARA COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608590132
Global Id: T0608590132
Latitude: 37.4129419
Longitude: -122.0700908
Status: Completed - Case Closed
Status Date: 04/03/2001
Case Worker: UST
RB Case Number: Not reported
Local Agency: SANTA CLARA COUNTY LOP
File Location: All Files are on GeoTracker or in the Local Agency Database
Local Case Number: Not reported
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0608590132
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

Global Id: T0608590132
Contact Type: Local Agency Caseworker
Contact Name: UST CASE WORKER
Organization Name: SANTA CLARA COUNTY LOP
Address: 1555 Berger Drive, Suite 300
City: SAN JOSE
Email: Not reported
Phone Number: 4089183400

LUST:
Global Id: T0608590132
Action Type: ENFORCEMENT
Date: 04/03/2001
Action: Closure/No Further Action Letter

KAISER (Continued) **S101594532**

Global Id: T0608590132
Action Type: Other
Date: 12/27/1985
Action: Leak Reported

Global Id: T0608590132
Action Type: REMEDIATION
Date: 02/23/1989
Action: Excavation

Global Id: T0608590132
Action Type: ENFORCEMENT
Date: 03/12/1991
Action: Notice of Responsibility - #40183

Global Id: T0608590132
Action Type: ENFORCEMENT
Date: 07/31/2000
Action: Staff Letter - #30723

Global Id: T0608590132
Action Type: ENFORCEMENT
Date: 08/06/1997
Action: Staff Letter - #30708

Global Id: T0608590132
Action Type: RESPONSE
Date: 03/03/1998
Action: Verbal Communication

Global Id: T0608590132
Action Type: RESPONSE
Date: 10/26/2000
Action: Other Report / Document

Global Id: T0608590132
Action Type: RESPONSE
Date: 06/04/1999
Action: Correspondence

Global Id: T0608590132
Action Type: RESPONSE
Date: 11/03/1998
Action: Monitoring Report - Quarterly

Global Id: T0608590132
Action Type: RESPONSE
Date: 06/04/1999
Action: Monitoring Report - Quarterly

Global Id: T0608590132
Action Type: RESPONSE
Date: 08/25/1999
Action: Monitoring Report - Quarterly

Global Id: T0608590132
Action Type: RESPONSE

KAISER (Continued) **S101594532**

Date: 06/17/1994
Action: Tank Removal Report / UST Sampling Report

Global Id: T0608590132
Action Type: RESPONSE
Date: 12/05/2000
Action: Monitoring Report - Quarterly

Global Id: T0608590132
Action Type: RESPONSE
Date: 10/12/2000
Action: Monitoring Report - Quarterly

Global Id: T0608590132
Action Type: RESPONSE
Date: 03/18/1994
Action: Tank Removal Report / UST Sampling Report

Global Id: T0608590132
Action Type: RESPONSE
Date: 05/04/2017
Action: Soil and Water Investigation Workplan

Global Id: T0608590132
Action Type: RESPONSE
Date: 10/15/2001
Action: Correspondence

Global Id: T0608590132
Action Type: RESPONSE
Date: 07/25/1989
Action: Monitoring Report - Quarterly

Global Id: T0608590132
Action Type: RESPONSE
Date: 08/06/1997
Action: Monitoring Report - Quarterly

Global Id: T0608590132
Action Type: RESPONSE
Date: 06/02/1989
Action: Tank Removal Report / UST Sampling Report

Global Id: T0608590132
Action Type: RESPONSE
Date: 06/13/1988
Action: Preliminary Site Assessment Report

Global Id: T0608590132
Action Type: RESPONSE
Date: 07/20/1998
Action: Other Report / Document

Global Id: T0608590132
Action Type: RESPONSE
Date: 05/19/1994
Action: Monitoring Report - Quarterly

KAISER (Continued) **S101594532**

Global Id: T0608590132
Action Type: RESPONSE
Date: 06/09/1998
Action: Monitoring Report - Quarterly

Global Id: T0608590132
Action Type: RESPONSE
Date: 04/18/2001
Action: Monitoring Report - Quarterly

Global Id: T0608590132
Action Type: RESPONSE
Date: 12/17/1999
Action: Monitoring Report - Quarterly

Global Id: T0608590132
Action Type: RESPONSE
Date: 11/22/1985
Action: Tank Removal Report / UST Sampling Report

Global Id: T0608590132
Action Type: RESPONSE
Date: 01/29/1999
Action: Monitoring Report - Quarterly

Global Id: T0608590132
Action Type: RESPONSE
Date: 04/27/1988
Action: Unauthorized Release Form

Global Id: T0608590132
Action Type: RESPONSE
Date: 06/13/1989
Action: Tank Removal Report / UST Sampling Report

Global Id: T0608590132
Action Type: RESPONSE
Date: 05/23/2000
Action: Request for Closure

Global Id: T0608590132
Action Type: RESPONSE
Date: 08/29/1994
Action: Remedial Progress Report

Global Id: T0608590132
Action Type: RESPONSE
Date: 09/01/1989
Action: Preliminary Site Assessment Report

Global Id: T0608590132
Action Type: RESPONSE
Date: 07/17/1991
Action: Tank Removal Report / UST Sampling Report

Global Id: T0608590132
Action Type: RESPONSE

KAISER (Continued) **S101594532**

Date: 06/08/1989
Action: Preliminary Site Assessment Report

Global Id: T0608590132
Action Type: RESPONSE
Date: 04/26/2016
Action: Site Assessment Report

Global Id: T0608590132
Action Type: RESPONSE
Date: 03/01/1992
Action: Interim Remedial Action Report

Global Id: T0608590132
Action Type: RESPONSE
Date: 03/06/1992
Action: Interim Remedial Action Report

Global Id: T0608590132
Action Type: RESPONSE
Date: 03/26/2016
Action: Soil and Water Investigation Workplan

Global Id: T0608590132
Action Type: RESPONSE
Date: 08/01/2000
Action: Monitoring Report - Quarterly

Global Id: T0608590132
Action Type: RESPONSE
Date: 07/30/1999
Action: Monitoring Report - Quarterly

Global Id: T0608590132
Action Type: RESPONSE
Date: 07/31/1999
Action: Monitoring Report - Quarterly

Global Id: T0608590132
Action Type: RESPONSE
Date: 10/31/1999
Action: Monitoring Report - Quarterly

Global Id: T0608590132
Action Type: RESPONSE
Date: 08/08/1997
Action: Monitoring Report - Quarterly

Global Id: T0608590132
Action Type: RESPONSE
Date: 05/18/1992
Action: Monitoring Report - Quarterly

Global Id: T0608590132
Action Type: RESPONSE
Date: 05/23/2000
Action: Monitoring Report - Quarterly

KAISER (Continued) **S101594532**

Global Id: T0608590132
Action Type: RESPONSE
Date: 07/31/2000
Action: Monitoring Report - Quarterly

Global Id: T0608590132
Action Type: RESPONSE
Date: 01/06/1986
Action: Tank Removal Report / UST Sampling Report

Global Id: T0608590132
Action Type: RESPONSE
Date: 04/09/1992
Action: Tank Removal Report / UST Sampling Report

Global Id: T0608590132
Action Type: RESPONSE
Date: 02/21/1992
Action: NPDES / WDR Reports

Global Id: T0608590132
Action Type: RESPONSE
Date: 06/01/1993
Action: Interim Remedial Action Report

Global Id: T0608590132
Action Type: RESPONSE
Date: 04/27/1992
Action: Monitoring Report - Quarterly

Global Id: T0608590132
Action Type: ENFORCEMENT
Date: 05/01/1999
Action: Staff Letter - #30716

LUST:
Global Id: T0608590132
Status: Completed - Case Closed
Status Date: 04/03/2001

Global Id: T0608590132
Status: Open - Case Begin Date
Status Date: 12/27/1985

Global Id: T0608590132
Status: Open - Site Assessment
Status Date: 12/27/1985

Global Id: T0608590132
Status: Open - Site Assessment
Status Date: 04/23/1989

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 06S2W15F01F

KAISER (Continued) **S101594532**

Date Closed: 04/03/2001
EDR Link ID: 06S2W15F01F

SWEEPS UST:
Status: Not reported
Comp Number: 11504
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 43-005-011504-000001
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: 2

Status: Not reported
Comp Number: 11504
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 43-005-011504-000002
Tank Status: Not reported
Capacity: 500
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 43004487
Regulated By: UTNKI
Regulated ID: 00011504
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 1065 L'AVENIDA
Mailing Address 2: Not reported
Mailing City,St,Zip: MOUNTAIN VIEW 94040
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

KAISER (Continued) **S101594532**

CERS TANKS:
Site ID: 439382
CERS ID: 847715
CERS Description: NPDES Wastewater and Stormwater

Affiliation:
Affiliation Type Desc: Owner and Operator
Entity Name: Microsoft Corporation
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Site ID: 236075
CERS ID: T0608590132
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: UST CASE WORKER - SANTA CLARA COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: SAN JOSE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 4089183400

Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

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193 **PRECISION PHOTOGLASS INC** **CA CPS-SLIC** **S106162754**
NE **1090 B LAVENIDA AVE** **CA CERS** **N/A**
1/4-1/2 **MOUNTAIN VIEW, CA 94043**
0.313 mi.
1655 ft.

Relative:
Lower

Actual:
26 ft.

CPS-SLIC:
Region: STATE
Facility Status: **Open - Inactive**
Status Date: 04/17/2009
Global Id: T0608591674
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.4134351729588
Longitude: -122.072157968262

PRECISION PHOTOGLASS INC (Continued) **S106162754**

Case Type: Cleanup Program Site
Case Worker: UUU
Local Agency: Not reported
RB Case Number: 43S0718
File Location: Regional Board
Potential Media Affected: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Other Solvent or Non-Petroleum Hydrocarbon
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

SLIC REG 2:
Region: 2
Facility ID: 43S0718
Facility Status: Leak being confirmed
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Confirmed: 6/8/1994
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CERS TANKS:
Site ID: 213030
CERS ID: T0608591674
CERS Description: Cleanup Program Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

X194 **PEAR AVENUE AND LA AVENIDA STREET - LOS ALTOS GARB** **CA LUST S113804503**
NNE **1285 PEAR AVE** **CA CERS N/A**
1/4-1/2 **MOUNTAIN VIEW, CA 94043**
0.330 mi.
1744 ft. **Site 1 of 6 in cluster X**

Relative:
Lower

Actual:
23 ft.

LUST:
Lead Agency: SANTA CLARA COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608502237
Global Id: T0608502237
Latitude: 37.414865

PEAR AVENUE AND LA AVENIDA STREET - LOS ALTOS GARBAGE (Continued) **S113804503**

Longitude:	-122.075188
Status:	Completed - Case Closed
Status Date:	12/10/1999
Case Worker:	UST
RB Case Number:	Not reported
Local Agency:	SANTA CLARA COUNTY LOP
File Location:	All Files are on GeoTracker or in the Local Agency Database
Local Case Number:	Not reported
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0608502237
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

Global Id:	T0608502237
Contact Type:	Local Agency Caseworker
Contact Name:	UST CASE WORKER
Organization Name:	SANTA CLARA COUNTY LOP
Address:	1555 Berger Drive, Suite 300
City:	SAN JOSE
Email:	Not reported
Phone Number:	4089183400

LUST:

Global Id:	T0608502237
Action Type:	Other
Date:	01/16/1996
Action:	Leak Reported

Global Id:	T0608502237
Action Type:	REMEDIATION
Date:	12/05/1995
Action:	Ex Situ Physical/Chemical Treatment (other than P&T, SVE, or Excavation)

Global Id:	T0608502237
Action Type:	REMEDIATION
Date:	12/05/1995
Action:	Excavation

Global Id:	T0608502237
Action Type:	REMEDIATION
Date:	12/05/1995
Action:	Pump & Treat (P&T) Groundwater

Global Id:	T0608502237
Action Type:	ENFORCEMENT
Date:	10/10/1995
Action:	Notice of Responsibility - #40179

PEAR AVENUE AND LA AVENIDA STREET - LOS ALTOS GARBAGE (Continued) **S113804503**

Global Id: T0608502237
Action Type: RESPONSE
Date: 12/10/1999
Action: Other Report / Document

Global Id: T0608502237
Action Type: ENFORCEMENT
Date: 12/10/1999
Action: Closure/No Further Action Letter

LUST:
Global Id: T0608502237
Status: Completed - Case Closed
Status Date: 12/10/1999

Global Id: T0608502237
Status: Open - Case Begin Date
Status Date: 10/10/1995

Global Id: T0608502237
Status: Open - Site Assessment
Status Date: 12/05/1995

CERS TANKS:
Site ID: 251311
CERS ID: T0608502237
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: UST CASE WORKER - SANTA CLARA COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: SAN JOSE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 4089183400

Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

X195 **LOS ALTOS GARBAGE** **CA LUST** **S100866935**
NNE **1285 PEAR** **CA HIST LUST** **N/A**
1/4-1/2 **MOUNTAIN VIEW, CA 94043** **CA HAZNET**
0.330 mi. **CA HIST CORTESE**
1744 ft. **Site 2 of 6 in cluster X**

Relative:
Lower

Actual:
23 ft.

LUST REG 2:

Region:	2
Facility Id:	Not reported
Facility Status:	Case Closed
Case Number:	06S2W15D04f
How Discovered:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Date Leak Confirmed:	Not reported
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	12/5/1995
Pollution Characterization Began:	12/5/1995
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

LUST SANTA CLARA:

Region:	SANTA CLARA
SCVWD ID:	06S2W15D04F
Date Closed:	12/10/1999
EDR Link ID:	06S2W15D04F

HIST LUST SANTA CLARA:

Region:	SANTA CLARA
Region Code:	2
SCVWD ID:	06S2W15D04
Oversite Agency:	SCVWD
Date Listed:	1997-01-01 00:00:00
Closed Date:	1999-12-10 00:00:00

HAZNET:

Facility Name:	SOBRATO CONSTRUCTION CORPORATION
envid:	S100866935
Year:	2013
GEPAID:	CAC002747022
Contact:	RAUL OROZCO
Telephone:	4087966499
Mailing Name:	Not reported
Mailing Address:	10600 N DE ANZA BLVD STE 200
Mailing City,St,Zip:	CUPERTINO, CA 950142059
Gen County:	San Bernardino
TSD EPA ID:	CAD981382732
TSD County:	Alameda
Waste Category:	Not reported
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	36
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported

LOS ALTOS GARBAGE (Continued) **S100866935**

HIST CORTESE:
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-0832

196
NNE
1/4-1/2
0.344 mi.
1816 ft.

PEAR AVENUE AND LA AVENIDA STREET - PEAR AVENUE DE **CA CPS-SLIC S113804587**
1255 PEAR AVENUE **CA NPDES N/A**
MOUNTAIN VIEW, CA 94043 **CA CIWQS**
CA CERS

Relative:
Lower

Actual:
23 ft.

CPS-SLIC:
Region: STATE
Facility Status: **Open - Site Assessment**
Status Date: 07/10/2013
Global Id: T10000004925
Lead Agency: SANTA CLARA COUNTY LOP
Lead Agency Case Number: 06S2W15D08s
Latitude: 37.4145634560873
Longitude: -122.074872930688
Case Type: Cleanup Program Site
Case Worker: TLF
Local Agency: SANTA CLARA COUNTY LOP
RB Case Number: Not reported
File Location: All Files are on GeoTracker or in the Local Agency Database
Potential Media Affected: Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern: Tetrachloroethylene (PCE), Trichloroethylene (TCE), Total Petroleum Hydrocarbons (TPH)
Site History: This is a redevelopment project that encompasses 7 parcels. The existing structures are to be removed and replaced with a 5-story commercial structure. Addresses include: 1225 Pear Ave., 1285 Pear Ave., 1110 La Avenida, 1230 La Avenida, 1240 La Avenida, 1250-1260 La Avenida, and 1280 La Avenida Closed LUFT cases at 1250-1260 La Avenida and 1285 Pear Avenue. Additionally, the project site is located in close proximity to the Teledyne/Spectra Physics regional groundwater plume.

Click here to access the California GeoTracker records for this facility:

NPDES:
Facility Status: Not reported
NPDES Number: Not reported
Region: Not reported
Agency Number: Not reported
Regulatory Measure ID: Not reported
Place ID: Not reported
Order Number: Not reported
WDID: 2 43C368161
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

PEAR AVENUE AND LA AVENIDA STREET - PEAR AVENUE DEVELOPMENT (Continued) **S113804587**

Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	05/05/2015
Operator Name:	The Sobrato Organization
Operator Address:	10600 North De Anza Boulevard Suite 200
Operator City:	Cupertino
Operator State:	California
Operator Zip:	95014

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	439152
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	2 43C368161
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:	05/04/2015
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	11/01/2013
Processed Date:	11/04/2013
Status:	Terminated
Status Date:	05/05/2015
Place Size:	10.38
Place Size Unit:	Acres
Contact:	Craig Kitterman
Contact Title:	Senior Vice President of Construction
Contact Phone:	408-973-1500
Contact Phone Ext:	Not reported
Contact Email:	ckitterman@sobrato.com
Operator Name:	The Sobrato Organization
Operator Address:	10600 North De Anza Boulevard Suite 200
Operator City:	Cupertino
Operator State:	California
Operator Zip:	95014
Operator Contact:	Tim Steele
Operator Contact Title:	Senior Director of Development
Operator Contact Phone:	408-446-0700
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	tsteele@sobrato.com
Operator Type:	Private Business
Developer:	The Sobrato Organization
Developer Address:	10600 North De Anza Boulevard Suite 200
Developer City:	Cupertino
Developer State:	California
Developer Zip:	95014

PEAR AVENUE AND LA AVENIDA STREET - PEAR AVENUE DEVELOPMENT (Continued) **S113804587**

Developer Contact:	Tim Steele
Developer Contact Title:	Senior Director of Development
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:	Stevens Creek, Whisman Slough, South SF Bay
Certifier:	John Sobrato
Certifier Title:	President
Certification Date:	01-NOV-13
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000002
Status:	Terminated
Agency Number:	0
Region:	2
Regulatory Measure ID:	439152
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 43C368161
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	11/04/2013
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	05/04/2015
Discharge Name:	The Sobrato Organization
Discharge Address:	10600 North De Anza Boulevard Suite 200
Discharge City:	Cupertino
Discharge State:	California
Discharge Zip:	95014
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

PEAR AVENUE AND LA AVENIDA STREET - PEAR AVENUE DEVELOPMENT (Continued) **S113804587**

Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CIWQS:

Agency:	The Sobrato Organization
Agency Address:	10600 North De Anza Boulevard Suite 200, Cupertino, CA 95014
Place/Project Type:	Construction - Commercial
SIC/NAICS:	Not reported
Region:	2
Program:	CONSTW

PEAR AVENUE AND LA AVENIDA STREET - PEAR AVENUE DEVELOPMENT (Continued) **S113804587**

Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	2 43C368161
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	11/04/2013
Termination Date:	05/04/2015
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	37.41588
Longitude:	-122.074889

CERS TANKS:

Site ID:	232270
CERS ID:	T10000004925
CERS Description:	Cleanup Program Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	TRAVIS L. FLORA - SANTA CLARA COUNTY LOP
Entity Title:	Not reported
Affiliation Address:	1555 Berger Dr.
Affiliation City:	SAN JOSE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	4089183486

X197 **PEAR AVENUE DEVELOPMENT NORTH** **CA CPS-SLIC** **S122356498**
NNE **1260 PEAR AVENUE** **CA CERS** **N/A**
1/4-1/2 **MOUNTAIN VIEW, CA 94043**
0.358 mi.
1888 ft. **Site 3 of 6 in cluster X**

Relative:
Lower

Actual:
22 ft.

CPS-SLIC:

Region:	STATE
Facility Status:	**Open - Assessment & Interim Remedial Action**
Status Date:	05/23/2018
Global Id:	T10000011662
Lead Agency:	SANTA CLARA COUNTY LOP
Lead Agency Case Number:	2018-16s
Latitude:	37.41593
Longitude:	-122.07477
Case Type:	Cleanup Program Site
Case Worker:	TLF
Local Agency:	SANTA CLARA COUNTY LOP
RB Case Number:	Not reported
File Location:	All Files are on GeoTracker or in the Local Agency Database
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

PEAR AVENUE DEVELOPMENT NORTH (Continued) **S122356498**

Click here to access the California GeoTracker records for this facility:

CERS TANKS:
Site ID: 438736
CERS ID: T10000011662
CERS Description: Cleanup Program Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: TRAVIS L. FLORA - SANTA CLARA COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1555 Berger Dr.
Affiliation City: SAN JOSE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 4089183486

X198 **BEST-WAY TRANSPORTATION TERMIN** **CA LUST** **S101623030**
North **1280 PEAR AVE** **CA HIST LUST** **N/A**
1/4-1/2 **MOUNTAIN VIEW, CA 94043** **CA SWEEPS UST**
0.377 mi. **CA FID UST**
1993 ft. **Site 4 of 6 in cluster X**

Relative:
Lower

Actual:
21 ft.

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 06S2W15D03f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 8/12/1987
Pollution Characterization Began: 8/12/1987
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 06S2W15D03
Oversite Agency: SCVWD
Date Listed: 1988-01-01 00:00:00
Closed Date: 1996-11-26 00:00:00

SWEEPS UST:
Status: Active
Comp Number: 13953
Number: 9
Board Of Equalization: 44-025988
Referral Date: 06-22-92

BEST-WAY TRANSPORTATION TERMIN (Continued) **S101623030**

Action Date:	06-22-92
Created Date:	10-13-88
Owner Tank Id:	2
SWRCB Tank Id:	43-005-013953-000002
Tank Status:	A
Capacity:	10000
Active Date:	06-22-92
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	1

Status:	Not reported
Comp Number:	13953
Number:	Not reported
Board Of Equalization:	44-025988
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	43-005-013953-000001
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	DIESEL
Number Of Tanks:	3

Status:	Not reported
Comp Number:	13953
Number:	Not reported
Board Of Equalization:	44-025988
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	43-005-013953-000003
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	OIL
STG:	WASTE
Content:	WASTE OIL
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	13953
Number:	Not reported
Board Of Equalization:	44-025988
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	43-005-013953-000004
Tank Status:	Not reported
Capacity:	550

BEST-WAY TRANSPORTATION TERMIN (Continued) **S101623030**

Active Date: Not reported
Tank Use: OIL
STG: WASTE
Content: WASTE OIL
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 43001460
Regulated By: UTNKA
Regulated ID: 00013953
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4159601815
Mail To: Not reported
Mailing Address: 1280 PEAR AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: MOUNTAIN VIEW 94043
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

X199 **STOMPER COMPANY** **CA LUST** **S103628732**
North **1340 PEAR AVE** **CA HIST LUST** **N/A**
1/4-1/2 **MOUNTAIN VIEW, CA 94042** **CA HIST UST**
0.377 mi. **CA HIST CORTESE**
1993 ft. **Site 5 of 6 in cluster X** **CA CERS**

Relative:
Lower

Actual:
21 ft.

LUST:
Lead Agency: SANTA CLARA COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608500846
Global Id: T0608500846
Latitude: 37.415293
Longitude: -122.074834
Status: Completed - Case Closed
Status Date: 10/26/1998
Case Worker: UST
RB Case Number: Not reported
Local Agency: SANTA CLARA COUNTY LOP
File Location: All Files are on GeoTracker or in the Local Agency Database
Local Case Number: Not reported
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0608500846
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

STOMPER COMPANY (Continued) **S103628732**

Global Id: T0608500846
Contact Type: Local Agency Caseworker
Contact Name: UST CASE WORKER
Organization Name: SANTA CLARA COUNTY LOP
Address: 1555 Berger Drive, Suite 300
City: SAN JOSE
Email: Not reported
Phone Number: 4089183400

LUST:
Global Id: T0608500846
Action Type: Other
Date: 07/13/1998
Action: Leak Reported

Global Id: T0608500846
Action Type: ENFORCEMENT
Date: 10/26/1998
Action: Closure/No Further Action Letter

Global Id: T0608500846
Action Type: RESPONSE
Date: 10/26/1998
Action: Other Report / Document

LUST:
Global Id: T0608500846
Status: Completed - Case Closed
Status Date: 10/26/1998

Global Id: T0608500846
Status: Open - Case Begin Date
Status Date: 06/24/1998

Global Id: T0608500846
Status: Open - Site Assessment
Status Date: 06/24/1998

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 06S2W15D07f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 6/24/1998
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

STOMPER COMPANY (Continued) **S103628732**

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 06S2W15D07F
Date Closed: 10/26/1998
EDR Link ID: 06S2W15D07F

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 06S2W15D07
Oversite Agency: SCVWD
Date Listed: 1998-07-21 00:00:00
Closed Date: 1998-10-26 00:00:00

HIST UST:
File Number: 00020946
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00020946.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

HIST CORTESE:
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-2303

CERS TANKS:
Site ID: 226458
CERS ID: T0608500846
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400

STOMPER COMPANY (Continued) **S103628732**

Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	UST CASE WORKER - SANTA CLARA COUNTY LOP
Entity Title:	Not reported
Affiliation Address:	1555 Berger Drive, Suite 300
Affiliation City:	SAN JOSE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	4089183400

X200 **TNT BESTWAY TRANSPORTATION** **CA LUST** **S100930725**
North **1280 PEAR AVE** **CA HIST CORTESE** **N/A**
1/4-1/2 **MOUNTAIN VIEW, CA 94043** **CA CERS**
0.377 mi.
1993 ft. **Site 6 of 6 in cluster X**

Relative: **Lower**
Actual: **21 ft.**

LUST:

Lead Agency:	SANTA CLARA COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608501447
Global Id:	T0608501447
Latitude:	37.415487
Longitude:	-122.074748
Status:	Completed - Case Closed
Status Date:	11/26/1996
Case Worker:	UST
RB Case Number:	Not reported
Local Agency:	SANTA CLARA COUNTY LOP
File Location:	All Files are on GeoTracker or in the Local Agency Database
Local Case Number:	Not reported
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

LUST:

Global Id:	T0608501447
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported
Global Id:	T0608501447
Contact Type:	Local Agency Caseworker
Contact Name:	UST CASE WORKER
Organization Name:	SANTA CLARA COUNTY LOP
Address:	1555 Berger Drive, Suite 300
City:	SAN JOSE
Email:	Not reported

TNT BESTWAY TRANSPORTATION (Continued) **S100930725**

Phone Number: 4089183400

LUST:
Global Id: T0608501447
Action Type: Other
Date: 08/28/1987
Action: Leak Reported

Global Id: T0608501447
Action Type: RESPONSE
Date: 11/26/1996
Action: Other Report / Document

Global Id: T0608501447
Action Type: ENFORCEMENT
Date: 11/26/1996
Action: Closure/No Further Action Letter

Global Id: T0608501447
Action Type: ENFORCEMENT
Date: 11/21/1995
Action: Notice of Responsibility - #40178

LUST:
Global Id: T0608501447
Status: Completed - Case Closed
Status Date: 11/26/1996

Global Id: T0608501447
Status: Open - Case Begin Date
Status Date: 08/12/1987

Global Id: T0608501447
Status: Open - Site Assessment
Status Date: 08/12/1987

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 06S2W15D03F
Date Closed: 11/26/1996
EDR Link ID: 06S2W15D03F

HIST CORTESE:
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-1477

CERS TANKS:
Site ID: 215700
CERS ID: T0608501447
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:

TNT BESTWAY TRANSPORTATION (Continued) **S100930725**

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	UST CASE WORKER - SANTA CLARA COUNTY LOP
Entity Title:	Not reported
Affiliation Address:	1555 Berger Drive, Suite 300
Affiliation City:	SAN JOSE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	4089183400

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Y201 **ANTYPAS** **CA CPS-SLIC S119007869**
North **1599/1601 NORTH SHORELINE BOULEVARD** **CA CERS N/A**
1/4-1/2 **MOUNTAIN VIEW, CA**
0.398 mi.
2101 ft. **Site 1 of 2 in cluster Y**

Relative:
Lower

Actual:
20 ft.

CPS-SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	03/07/2007
Global Id:	T10000009411
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	Not reported
Latitude:	37.41657
Longitude:	-122.0776
Case Type:	Cleanup Program Site
Case Worker:	RWP
Local Agency:	Not reported
RB Case Number:	43S1206
File Location:	Not reported
Potential Media Affected:	Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

CERS TANKS:

Site ID:	408368
CERS ID:	T10000009411
CERS Description:	Cleanup Program Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Roger Papler - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY STREET, SUITE 1500
Affiliation City:	OAKLAND

ANTYPAS (Continued) **S119007869**

Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Y202 **SHORELINE HOTEL** **CA CPS-SLIC** **S112915531**
North **1625 NORTH SHORELINE BLVD** **CA HAZNET** **N/A**
1/4-1/2 **MOUNTAIN VIEW, CA 94043** **CA NPDES**
0.434 mi. **CA CIWQS**
2291 ft. **Site 2 of 2 in cluster Y** **CA CERS**

Relative:
Lower

Actual:
19 ft.

CPS-SLIC:

Region:	STATE
Facility Status:	**Open - Remediation**
Status Date:	01/01/2016
Global Id:	T10000007090
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	Not reported
Latitude:	37.4168
Longitude:	-122.07739
Case Type:	Cleanup Program Site
Case Worker:	RWP
Local Agency:	Not reported
RB Case Number:	43S1173
File Location:	Regional Board
Potential Media Affected:	Soil, Soil Vapor
Potential Contaminants of Concern:	Trichloroethylene (TCE)
Site History:	The project is a redevelopment property within the Teledyne-Spectraphysics (T-S) plume with underlying groundwater probably impacted by the upgradient T-S source properties. The developer plans to construct the building wiht a vapor intrusion mitigation system (VIMS) and water barrier. Indoor air testing will be conducted to verify that the VIMS is working as designed.

Click here to access the California GeoTracker records for this facility:

HAZNET:

Facility Name:	MILLIE CHUCK
envid:	S112915531
Year:	2001
GEPAID:	CAC002361015
Contact:	RUDY GONZALES/R & S TECH INC
Telephone:	4089801613
Mailing Name:	Not reported
Mailing Address:	22215 VIA CAMINO CT
Mailing City,St,Zip:	CUPERTINO, CA 950140000
Gen County:	Not reported
TSD EPA ID:	CAD059494310
TSD County:	Not reported
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Transfer Station
Tons:	0.14
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

SHORELINE HOTEL (Continued) **S112915531**

NPDES:

Facility Status:	Active
NPDES Number:	CAS000002
Region:	2
Agency Number:	0
Regulatory Measure ID:	488338
Place ID:	Not reported
Order Number:	2009-0009-DWQ
WDID:	2 43C380385
Regulatory Measure Type:	Enrollee
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	07/10/2017
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	20370 Town Center Lane
Discharge Name:	Infinite Loop Mountain View Hotel LLC
Discharge City:	Cupertino
Discharge State:	California
Discharge Zip:	95014
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	488338
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	2 43C380385
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:	07/07/2017
Processed Date:	07/10/2017
Status:	Active
Status Date:	07/10/2017
Place Size:	1.5
Place Size Unit:	Acres
Contact:	Fred Weaver
Contact Title:	Director of Design and Construction
Contact Phone:	213-840-8292

SHORELINE HOTEL (Continued) **S112915531**

Contact Phone Ext:	Not reported
Contact Email:	fweaver@shashigroup.com
Operator Name:	Infinite Loop Mountain View Hotel LLC
Operator Address:	20370 Town Center Lane
Operator City:	Cupertino
Operator State:	California
Operator Zip:	95014
Operator Contact:	Fred Weaver
Operator Contact Title:	Director of Design and Construction
Operator Contact Phone:	213-840-8292
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	fweaver@shashigroup.com
Operator Type:	Private Business
Developer:	Infinite Loop Montain View Hotel LLC
Developer Address:	20370 Town Center Lane
Developer City:	Cupertino
Developer State:	California
Developer Zip:	95014
Developer Contact:	Fred Weaver
Developer Contact Title:	Director of Design and Construction
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:	Stevens Creek
Certifier:	Fred Weaver
Certifier Title:	Director of Design and Construction
Certification Date:	07-JUL-17
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000002
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	488338
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 43C380385

SHORELINE HOTEL (Continued) **S112915531**

Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	07/10/2017
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Infinite Loop Mountain View Hotel LLC
Discharge Address:	20370 Town Center Lane
Discharge City:	Cupertino
Discharge State:	California
Discharge Zip:	95014
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported

SHORELINE HOTEL (Continued) **S112915531**

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

Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	2 43C380385
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	07/10/2017
Operator Name:	Infinite Loop Mountain View Hotel LLC
Operator Address:	20370 Town Center Lane
Operator City:	Cupertino
Operator State:	California
Operator Zip:	95014

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	488338
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	2 43C380385
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

SHORELINE HOTEL (Continued) **S112915531**

Received Date:	07/07/2017
Processed Date:	07/10/2017
Status:	Active
Status Date:	07/10/2017
Place Size:	1.5
Place Size Unit:	Acres
Contact:	Fred Weaver
Contact Title:	Director of Design and Construction
Contact Phone:	213-840-8292
Contact Phone Ext:	Not reported
Contact Email:	fweaver@shashigroup.com
Operator Name:	Infinite Loop Mountain View Hotel LLC
Operator Address:	20370 Town Center Lane
Operator City:	Cupertino
Operator State:	California
Operator Zip:	95014
Operator Contact:	Fred Weaver
Operator Contact Title:	Director of Design and Construction
Operator Contact Phone:	213-840-8292
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	fweaver@shashigroup.com
Operator Type:	Private Business
Developer:	Infinite Loop Montain View Hotel LLC
Developer Address:	20370 Town Center Lane
Developer City:	Cupertino
Developer State:	California
Developer Zip:	95014
Developer Contact:	Fred Weaver
Developer Contact Title:	Director of Design and Construction
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:	Stevens Creek
Certifier:	Fred Weaver
Certifier Title:	Director of Design and Construction
Certification Date:	07-JUL-17
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

SHORELINE HOTEL (Continued) **S112915531**

NPDES Number:	CAS000002
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	488338
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 43C380385
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	07/10/2017
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Infinite Loop Mountain View Hotel LLC
Discharge Address:	20370 Town Center Lane
Discharge City:	Cupertino
Discharge State:	California
Discharge Zip:	95014
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported

SHORELINE HOTEL (Continued) **S112915531**

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:

Agency:	Infinite Loop Mountain View Hotel LLC
Agency Address:	20370 Town Center Lane Suite 100, Cupertino, CA 95014
Place/Project Type:	Construction - Commercial
SIC/NAICS:	Not reported
Region:	2
Program:	CONSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	2 43C380385
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	07/10/2017
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	37.41687
Longitude:	-122.0772

CERS TANKS:

Site ID:	333949
CERS ID:	T10000007090
CERS Description:	Cleanup Program Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Roger Papler - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY STREET, SUITE 1500
Affiliation City:	OAKLAND
Affiliation State:	CA

SHORELINE HOTEL (Continued) **S112915531**

Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Z203 **MOUNTAIN VIEW WHISMAN SCHOOL DIST** **CA HIST CORTESE** **S102441241**
WNW **1695 ROCK ST** **CA NPDES** **N/A**
1/4-1/2 **MOUNTAIN VIEW, CA 94043** **CA WDS**
0.439 mi. **CA CIWQS**
2318 ft. **Site 1 of 3 in cluster Z**

Relative:
Lower

Actual:
30 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-0422

NPDES:
Facility Status: Not reported
NPDES Number: Not reported
Region: Not reported
Agency Number: Not reported
Regulatory Measure ID: Not reported
Place ID: Not reported
Order Number: Not reported
WDID: 2 43I009344
Regulatory Measure Type: Industrial
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: Not reported
Discharge Name: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
Status: Terminated
Status Date: 10/17/2016
Operator Name: Mountain View Whisman School District
Operator Address: 750 San Pierre Way A
Operator City: Mountain View
Operator State: California
Operator Zip: 94043

NPDES as of 03/2018:
NPDES Number: CAS000001
Status: Terminated
Agency Number: 0
Region: 2
Regulatory Measure ID: 183994
Order Number: 97-03-DWQ
Regulatory Measure Type: Enrollee
Place ID: Not reported
WDID: 2 43I009344
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 11/14/1992

MOUNTAIN VIEW WHISMAN SCHOOL DIST (Continued) **S102441241**

Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	10/17/2016
Discharge Name:	Mountain View Whisman School District
Discharge Address:	750 San Pierre Way A
Discharge City:	Mountain View
Discharge State:	California
Discharge Zip:	94043
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported

MOUNTAIN VIEW WHISMAN SCHOOL DIST (Continued) **S102441241**

Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	183994
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 43I009344
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:	10/17/2016
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	11/14/1992
Status:	Terminated
Status Date:	10/17/2016
Place Size:	15000
Place Size Unit:	SqFt
Contact:	James Bakos
Contact Title:	Director of MOT
Contact Phone:	650-526-3587
Contact Phone Ext:	Not reported
Contact Email:	jbakos@mvwsd.org
Operator Name:	Mountain View Whisman School District
Operator Address:	750 San Pierre Way A
Operator City:	Mountain View
Operator State:	California
Operator Zip:	94043
Operator Contact:	James Bakos
Operator Contact Title:	Director of MOT
Operator Contact Phone:	650-526-3587
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	jbakos@mvwsd.org
Operator Type:	Other
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	650-224-6231

MOUNTAIN VIEW WHISMAN SCHOOL DIST (Continued) **S102441241**

Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	San Francisco Bay
Certifier:	James Bakos
Certifier Title:	Director of MOT
Certification Date:	06-MAY-16
Primary Sic:	4151-School Buses
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Facility Status:	Terminated
NPDES Number:	CAS000001
Region:	2
Agency Number:	0
Regulatory Measure ID:	183994
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	2 43I009344
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	11/14/1992
Termination Date Of Regulatory Measure:	10/17/2016
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	750 San Pierre Way A
Discharge Name:	Mountain View Whisman School District
Discharge City:	Mountain View
Discharge State:	California
Discharge Zip:	94043
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Terminated
Agency Number:	0

MOUNTAIN VIEW WHISMAN SCHOOL DIST (Continued) **S102441241**

Region:	2
Regulatory Measure ID:	183994
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 43I009344
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	11/14/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	10/17/2016
Discharge Name:	Mountain View Whisman School District
Discharge Address:	750 San Pierre Way A
Discharge City:	Mountain View
Discharge State:	California
Discharge Zip:	94043
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported

MOUNTAIN VIEW WHISMAN SCHOOL DIST (Continued) **S102441241**

Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	183994
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 43I009344
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:	10/17/2016
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	11/14/1992
Status:	Terminated
Status Date:	10/17/2016
Place Size:	15000
Place Size Unit:	SqFt
Contact:	James Bakos
Contact Title:	Director of MOT
Contact Phone:	650-526-3587
Contact Phone Ext:	Not reported
Contact Email:	jbakos@mvwsd.org
Operator Name:	Mountain View Whisman School District
Operator Address:	750 San Pierre Way A
Operator City:	Mountain View
Operator State:	California
Operator Zip:	94043
Operator Contact:	James Bakos
Operator Contact Title:	Director of MOT
Operator Contact Phone:	650-526-3587
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	jbakos@mvwsd.org
Operator Type:	Other

MOUNTAIN VIEW WHISMAN SCHOOL DIST (Continued) **S102441241**

Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	650-224-6231
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	San Francisco Bay
Certifier:	James Bakos
Certifier Title:	Director of MOT
Certification Date:	06-MAY-16
Primary Sic:	4151-School Buses
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

WDS:

Facility ID:	San Francisco Bay 43I009344
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	2
Facility Telephone:	4159036955
Facility Contact:	REBECCA G WRIGHT
Agency Name:	WHISMAN SCH DIST
Agency Address:	750 San Pierre Way # A
Agency City,St,Zip:	Mountain View 940433133
Agency Contact:	REBECCA G WRIGHT
Agency Telephone:	4159036955
Agency Type:	?

MOUNTAIN VIEW WHISMAN SCHOOL DIST (Continued) **S102441241**

SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

CIWQS:

Agency:	Mountain View Whisman School District
Agency Address:	750 San Pierre Way A, Mountain View, CA 94043
Place/Project Type:	Industrial - School Buses
SIC/NAICS:	4151
Region:	2
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	2 43I009344
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	11/14/1992
Termination Date:	10/17/2016
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	37.41219
Longitude:	-122.08467

AA204
ESE
1/4-1/2
0.441 mi.
2329 ft.

MOFFETT GATEWAY
750 MOFFETT BOULEVARD
MOUNTAIN VIEW, CA 94043

Site 1 of 3 in cluster AA

CA CPS-SLIC **S112274221**
N/A

Relative:
Higher

Actual:
41 ft.

CPS-SLIC:

Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	12/13/2012
Global Id:	T10000004491
Lead Agency:	US ENVIRONMENTAL PROTECTION AGENCY
Lead Agency Case Number:	Not reported
Latitude:	37.406411
Longitude:	-122.068325
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Dichloroethene (DCE), Trichloroethylene (TCE)
Site History:	The site formerly was used as the Santa Clara County vector control maintenance yard. Soil, soil vapor, and groundwater sampling showed contamination by petroleum hydrocarbons and/or VOCs. Under DTSC oversight, the County conducted several investigations and a soil removal. The City purchased the property and conducted additional investigation (soil, soil vapor, and groundwater) to evaluate on-site sources and extent of VOCs in 2013. Following completion of this work, the City installed site monitoring wells. The U.S. Environmental Protection Agency (EPA) determined groundwater contamination at this site is part of the MEW Superfund Study Area; lead regulatory agency oversight transitioned to EPA in February 2015.
	Not reported

Click here to access the California GeoTracker records for this facility:

AA205
ESE
1/4-1/2
0.441 mi.
2329 ft.

FORMER VECTOR CONTROL YARD
750 MOFFETT BLVD
MOUNTAIN VIEW, CA 94043

Site 2 of 3 in cluster AA

CA ENVIROSTOR **S101623015**
CA VCP **N/A**
CA SWEEPS UST
CA FID UST
CA NPDES
CA CIWQS
CA CERS

Relative:
Higher

Actual:
41 ft.

ENVIROSTOR:

Facility ID:	60000183
Status:	Certified
Status Date:	05/06/2009
Site Code:	201646
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	6.7
NPL:	NO
Regulatory Agencies:	SMBRP, US EPA, CITY OF MOUNTAIN VIEW
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Denise Tsuji
Division Branch:	Cleanup Berkeley
Assembly:	24

FORMER VECTOR CONTROL YARD (Continued) **S101623015**

Senate: 13
Special Program: Voluntary Cleanup Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.40634
Longitude: -122.0682
APN: 153-19-007
Past Use: PESTICIDE/INSECTIDE/RODENTICIDE STORAGE
Potential COC: TPH-diesel TPH-MOTOR OIL Trichloroethylene (TCE Vinyl chloride 1,2-Dichloroethylene (cis 1,2-Dichloroethylene (trans 1,3,5-Trimethylbenzene Xylenes
Confirmed COC: 1,3,5-Trimethylbenzene TPH-diesel 1,2-Dichloroethylene (cis 1,2-Dichloroethylene (trans TPH-MOTOR OIL Xylenes Trichloroethylene (TCE Vinyl chloride
Potential Description: OTH, SOIL
Alias Name: Mountain View Gateway
Alias Type: Alternate Name
Alias Name: 153-19-007
Alias Type: APN
Alias Name: 110033614658
Alias Type: EPA (FRS #)
Alias Name: 201646
Alias Type: Project Code (Site Code)
Alias Name: 60000183
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 02/13/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 05/06/2009
Comments: Sump and associated piping removal action completed. Site certified.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 07/06/2006
Comments: Final executed VCA signed by Branch Chief.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 07/30/2012
Comments: DTSC response regarding the San Francisco Bay Regional Water Quality Control Board’s plans to include the former Vector Control Yard in its regional groundwater investigation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 01/17/2007

FORMER VECTOR CONTROL YARD (Continued) **S101623015**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 10/25/2006
Comments: Report outlined data gaps in the investigation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 04/20/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/27/2007
Comments: Field work completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 12/28/2007
Comments: Site characterization completed. VOC groundwater contamination was determined to be form an offsite source. Remediation of the groundwater contamination will not be included as part of the Removal Action Workplan (RAW). The RAW will focus on the mitigation of residual soil VOC and TPH contamination associated with the Catch Basin. The results of the Site groundwater investigation indicates that the source(s) of the VOC groundwater contamination is from off-site and conveyed through the utility corridor.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 02/24/2009
Comments: No comments received. Draft RAW approved as final. Implementation of the RAW is expected to be completed in March 2009.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 12/31/2008
Comments: Vector Control Community Profile completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 12/30/2008
Comments: Public Notice complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 12/30/2008
Comments: Fact Sheet complete.

FORMER VECTOR CONTROL YARD (Continued) **S101623015**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	05/07/2009
Comments:	Sump and associated piping excavated. Confirmation sampling results indicated remaining concentrations of COCs are below the Site cleanup goals. Excavation area was backfilled with clean imported soil.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

VCP:

Facility ID:	60000183
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	6.7
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP, US EPA, CITY OF MOUNTAIN VIEW
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Denise Tsuji
Division Branch:	Cleanup Berkeley
Site Code:	201646
Assembly:	24
Senate:	13
Special Programs Code:	Voluntary Cleanup Program
Status:	Certified
Status Date:	05/06/2009
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.40634 / -122.0682
APN:	153-19-007
Past Use:	PESTICIDE/INSECTIDE/RODENTICIDE STORAGE
Potential COC:	30024, 3002502, 30027, 30028, 30195, 30196, 30578, 30593
Confirmed COC:	30578,30024,30195,30196,3002502,30593,30027,30028
Potential Description:	OTH, SOIL
Alias Name:	Mountain View Gateway
Alias Type:	Alternate Name
Alias Name:	153-19-007
Alias Type:	APN
Alias Name:	110033614658
Alias Type:	EPA (FRS #)
Alias Name:	201646
Alias Type:	Project Code (Site Code)
Alias Name:	60000183
Alias Type:	Envirostor ID Number

Completed Info:

FORMER VECTOR CONTROL YARD (Continued) **S101623015**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 02/13/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 05/06/2009
Comments: Sump and associated piping removal action completed. Site certified.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 07/06/2006
Comments: Final executed VCA signed by Branch Chief.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
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Completed Date: 07/30/2012
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Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 01/17/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 10/25/2006
Comments: Report outlined data gaps in the investigation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 04/20/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/27/2007
Comments: Field work completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 12/28/2007
Comments: Site characterization completed. VOC groundwater contamination was determined to be form an offsite source. Remediation of the groundwater contamination will not be included as part of the Removal

FORMER VECTOR CONTROL YARD (Continued) **S101623015**

Action Workplan (RAW). The RAW will focus on the mitigation of residual soil VOC and TPH contamination associated with the Catch Basin. The results of the Site groundwater investigation indicates that the source(s) of the VOC groundwater contamination is from off-site and conveyed through the utility corridor.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 02/24/2009
Comments: No comments received. Draft RAW approved as final. Implementation of the RAW is expected to be completed in March 2009.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 12/31/2008
Comments: Vector Control Community Profile completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 12/30/2008
Comments: Public Notice complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 12/30/2008
Comments: Fact Sheet complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 05/07/2009
Comments: Sump and associated piping excavated. Confirmation sampling results indicated remaining concentrations of COCs are below the Site cleanup goals. Excavation area was backfilled with clean imported soil.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SWEEPS UST:
Status: Not reported
Comp Number: 57234
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported

FORMER VECTOR CONTROL YARD (Continued) **S101623015**

Owner Tank Id: Not reported
SWRCB Tank Id: 43-005-057234-000001
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: 3

Status: Not reported
Comp Number: 57234
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 43-005-057234-000002
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: UNKNOWN
STG: WASTE
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 57234
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 43-005-057234-000003
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 43006887
Regulated By: UTNKI
Regulated ID: 00057234
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4082996060
Mail To: Not reported
Mailing Address: 2220 MOORPARK AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: MOUNTAIN VIEW 94040
Contact: Not reported
Contact Phone: Not reported

FORMER VECTOR CONTROL YARD (Continued) **S101623015**

DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

NPDES:

Facility Status:	Active
NPDES Number:	CAS000002
Region:	2
Agency Number:	0
Regulatory Measure ID:	487189
Place ID:	Not reported
Order Number:	2009-0009-DWQ
WDID:	2 43C380129
Regulatory Measure Type:	Enrollee
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	06/13/2017
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	855 El Camino Real
Discharge Name:	MV 101 Development LLC
Discharge City:	Palo Alto
Discharge State:	California
Discharge Zip:	94301
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	487189
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	2 43C380129
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:	06/08/2017
Processed Date:	06/13/2017
Status:	Active

FORMER VECTOR CONTROL YARD (Continued) **S101623015**

Status Date:	06/13/2017
Place Size:	11.19
Place Size Unit:	Acres
Contact:	James Bosco
Contact Title:	Investment Associate
Contact Phone:	650-461-8643
Contact Phone Ext:	Not reported
Contact Email:	jbosco@broadreachcp.com
Operator Name:	MV 101 Development LLC
Operator Address:	855 El Camino Real
Operator City:	Palo Alto
Operator State:	California
Operator Zip:	94301
Operator Contact:	James Bosco
Operator Contact Title:	Investment Associate
Operator Contact Phone:	650-461-8643
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	jbosco@broadreachcp.com
Operator Type:	Private Business
Developer:	MV 101 Development LLC
Developer Address:	855 El Camino Real
Developer City:	Palo Alto
Developer State:	California
Developer Zip:	94301
Developer Contact:	James Bosco
Developer Contact Title:	Investment Associate
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:	James Bosco
Certifier Title:	Investment Associate
Certification Date:	08-JUN-17
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000002
Status:	Active
Agency Number:	0

FORMER VECTOR CONTROL YARD (Continued) **S101623015**

Region:	2
Regulatory Measure ID:	487189
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 43C380129
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	06/13/2017
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	MV 101 Development LLC
Discharge Address:	855 El Camino Real
Discharge City:	Palo Alto
Discharge State:	California
Discharge Zip:	94301
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported

FORMER VECTOR CONTROL YARD (Continued) **S101623015**

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

Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	2 43C380129
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	06/13/2017
Operator Name:	MV 101 Development LLC
Operator Address:	855 El Camino Real
Operator City:	Palo Alto
Operator State:	California
Operator Zip:	94301

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	487189
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	2 43C380129
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

FORMER VECTOR CONTROL YARD (Continued) **S101623015**

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:	06/08/2017
Processed Date:	06/13/2017
Status:	Active
Status Date:	06/13/2017
Place Size:	11.19
Place Size Unit:	Acres
Contact:	James Bosco
Contact Title:	Investment Associate
Contact Phone:	650-461-8643
Contact Phone Ext:	Not reported
Contact Email:	jbosco@broadreachcp.com
Operator Name:	MV 101 Development LLC
Operator Address:	855 El Camino Real
Operator City:	Palo Alto
Operator State:	California
Operator Zip:	94301
Operator Contact:	James Bosco
Operator Contact Title:	Investment Associate
Operator Contact Phone:	650-461-8643
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	jbosco@broadreachcp.com
Operator Type:	Private Business
Developer:	MV 101 Development LLC
Developer Address:	855 El Camino Real
Developer City:	Palo Alto
Developer State:	California
Developer Zip:	94301
Developer Contact:	James Bosco
Developer Contact Title:	Investment Associate
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:	James Bosco

FORMER VECTOR CONTROL YARD (Continued) **S101623015**

Certifier Title:	Investment Associate
Certification Date:	08-JUN-17
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000002
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	487189
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 43C380129
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	06/13/2017
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	MV 101 Development LLC
Discharge Address:	855 El Camino Real
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Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported

FORMER VECTOR CONTROL YARD (Continued) **S101623015**

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:

Agency:	MV 101 Development LLC
Agency Address:	855 El Camino Real Building 5 Suite 350, Palo Alto, CA 94301
Place/Project Type:	Construction - Commercial
SIC/NAICS:	Not reported
Region:	2
Program:	CONSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	2 43C380129
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	06/13/2017
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	37.40641
Longitude:	-122.06833

CERS TANKS:

Site ID:	228624
CERS ID:	T10000004491
CERS Description:	Cleanup Program Site

FORMER VECTOR CONTROL YARD (Continued) **S101623015**

Affiliation:
- Affiliation Type Desc: Regional Board Caseworker
- Entity Name: ELIZABETH WELLS - SAN FRANCISCO BAY RWQCB (REGION 2)
- Entity Title: Not reported
- Affiliation Address: 1515 CLAY ST., SUITE 1400
- Affiliation City: OAKLAND
- Affiliation State: CA
- Affiliation Country: Not reported
- Affiliation Zip: Not reported
- Affiliation Phone: Not reported

Z206 **CRITTENDEN INTERMEDIATE SCHOOL** **CA LUST** **S100948427**
WNW **1701 ROCK ST** **CA HIST CORTESE** **N/A**
1/4-1/2 **MOUNTAIN VIEW, CA 94043** **CA CERS**
0.444 mi.
2343 ft. **Site 2 of 3 in cluster Z**

Relative: **Lower**
Actual: **30 ft.**

LUST:
- Lead Agency: SANTA CLARA COUNTY LOP
- Case Type: LUST Cleanup Site
- Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608502058
- Global Id: T0608502058
- Latitude: 37.412063
- Longitude: -122.085012
- Status: Completed - Case Closed
- Status Date: 01/25/2005
- Case Worker: UST
- RB Case Number: Not reported
- Local Agency: SANTA CLARA COUNTY LOP
- File Location: All Files are on GeoTracker or in the Local Agency Database
- Local Case Number: Not reported
- Potential Media Affect: Other Groundwater (uses other than drinking water)
- Potential Contaminants of Concern: Gasoline
- Site History: Not reported

LUST:
- Global Id: T0608502058
- Contact Type: Regional Board Caseworker
- Contact Name: Regional Water Board
- Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
- Address: 1515 CLAY ST SUITE 1400
- City: OAKLAND
- Email: Not reported
- Phone Number: Not reported

- Global Id: T0608502058
- Contact Type: Local Agency Caseworker
- Contact Name: UST CASE WORKER
- Organization Name: SANTA CLARA COUNTY LOP
- Address: 1555 Berger Drive, Suite 300
- City: SAN JOSE
- Email: Not reported
- Phone Number: 4089183400

LUST:
- Global Id: T0608502058

CRITTENDEN INTERMEDIATE SCHOOL (Continued) **S100948427**

Action Type: RESPONSE
Date: 04/21/2000
Action: Monitoring Report - Quarterly

Global Id: T0608502058
Action Type: RESPONSE
Date: 12/30/1988
Action: Unauthorized Release Form

Global Id: T0608502058
Action Type: Other
Date: 06/01/1990
Action: Leak Reported

Global Id: T0608502058
Action Type: RESPONSE
Date: 04/24/1990
Action: CAP/RAP - Feasibility Study Report

Global Id: T0608502058
Action Type: RESPONSE
Date: 05/02/2000
Action: Remedial Progress Report

Global Id: T0608502058
Action Type: ENFORCEMENT
Date: 02/28/1997
Action: Notice of Responsibility - #40205

Global Id: T0608502058
Action Type: ENFORCEMENT
Date: 04/08/1997
Action: Staff Letter - #30607

Global Id: T0608502058
Action Type: RESPONSE
Date: 01/08/1990
Action: Monitoring Report - Quarterly

Global Id: T0608502058
Action Type: RESPONSE
Date: 01/31/1989
Action: Other Report / Document

Global Id: T0608502058
Action Type: RESPONSE
Date: 01/01/1989
Action: Correspondence

Global Id: T0608502058
Action Type: RESPONSE
Date: 07/02/1990
Action: Other Workplan

Global Id: T0608502058
Action Type: REMEDIATION
Date: 03/27/1991

CRITTENDEN INTERMEDIATE SCHOOL (Continued) **S100948427**

Action: Excavation

Global Id: T0608502058
Action Type: REMEDIATION
Date: 03/27/1991
Action: Pump & Treat (P&T) Groundwater

Global Id: T0608502058
Action Type: REMEDIATION
Date: 03/27/1991
Action: Soil Vapor Extraction (SVE)

Global Id: T0608502058
Action Type: ENFORCEMENT
Date: 06/03/2005
Action: Other Report

Global Id: T0608502058
Action Type: RESPONSE
Date: 06/03/2005
Action: Other Report / Document

Global Id: T0608502058
Action Type: RESPONSE
Date: 04/02/1991
Action: Well Installation Report

Global Id: T0608502058
Action Type: RESPONSE
Date: 12/30/1988
Action: Preliminary Site Assessment Report

Global Id: T0608502058
Action Type: RESPONSE
Date: 01/07/1989
Action: Soil and Water Investigation Report

Global Id: T0608502058
Action Type: RESPONSE
Date: 02/09/2005
Action: Well Destruction Report

Global Id: T0608502058
Action Type: RESPONSE
Date: 06/03/2005
Action: Other Report / Document

Global Id: T0608502058
Action Type: ENFORCEMENT
Date: 04/18/2000
Action: Staff Letter - #30609

LUST:
Global Id: T0608502058
Status: Completed - Case Closed
Status Date: 01/25/2005

CRITTENDEN INTERMEDIATE SCHOOL (Continued) **S100948427**

Global Id: T0608502058
Status: Open - Case Begin Date
Status Date: 12/30/1988

Global Id: T0608502058
Status: Open - Site Assessment
Status Date: 12/30/1988

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 06S2W16G01F
Date Closed: 01/25/2005
EDR Link ID: 06S2W16G01F

HIST CORTESE:
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-2243

CERS TANKS:
Site ID: 250075
CERS ID: T0608502058
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Local Agency Caseworker
Entity Name: UST CASE WORKER - SANTA CLARA COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: SAN JOSE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 4089183400

Z207 **WHISMAN SD CRITTENDEN MIDDLE SCHOOL** **RCRA-SQG** **1000383413**
WNW **1701 ROCK ST** **CA LUST** **CAD982027005**
1/4-1/2 **MOUNTAIN VIEW, CA 94043** **CA HIST LUST**
0.444 mi. **FINDS**
2343 ft. **Site 3 of 3 in cluster Z** **ECHO**

Relative:
Lower

Actual:
30 ft.

RCRA-SQG:

Date form received by agency:	08/20/1987
Facility name:	WHISMAN SD CRITTENDEN MIDDLE SCHOOL
Facility address:	1701 ROCK ST MOUNTAIN VIEW, CA 94043
EPA ID:	CAD982027005
Mailing address:	ROCK ST MOUNTAIN VIEW, CA 94043
Contact:	ENVIRONMENTAL MANAGER
Contact address:	1701 ROCK ST MOUNTAIN VIEW, CA 94043
Contact country:	US
Contact telephone:	415-968-7749
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	WHISMAN SCHOOL DIST
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	State
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	State
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No

WHISMAN SD CRITTENDEN MIDDLE SCHOOL (Continued) **1000383413**

Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Post remedial action monitoring
Case Number: 06S2W16G01f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 12/30/1988
Pollution Characterization Began: 12/30/1988
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: 12/1/1993

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 06S2W16G01
Oversite Agency: SCVWD
Date Listed: 1991-01-01 00:00:00
Closed Date: 2005-01-25 00:00:00

FINDS:

Registry ID: 110002781320

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.

WHISMAN SD CRITTENDEN MIDDLE SCHOOL (Continued) **1000383413**

ECHO:
Envid: 1000383413
Registry ID: 110002781320
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002781320

AA208 **HIGHWAY 101 AND MOFFETT BLVD** **SEMS** **1008341526**
ESE **HIGHWWAY 101/85/MOFFETT BLVD** **CAN000906131**
1/4-1/2 **MOUNTAIN VIEW, CA 94043**
0.445 mi.
2350 ft. **Site 3 of 3 in cluster AA**

Relative:
Higher

Actual:
43 ft.

SEMS:
Site ID: 0906131
EPA ID: CAN000906131
Cong District: 14
FIPS Code: 06085
Latitude: Not reported
Longitude: Not reported
FF: N
NPL: Not on the NPL
Non NPL Status: Status Not Specified

SEMS Detail:
Region: 09
Site ID: 0906131
EPA ID: CAN000906131
Site Name: HIGHWAY 101 AND MOFFETT BLVD
NPL: N
FF: N
OU: 00
Action Code: TA
Action Name: TECH ASSIST
SEQ: 1
Start Date: 2005-08-01 04:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

AB209 **UNOCAL #4769** **CA LUST** **S105194606**
South **510 SHORELINE BLVD** **CA HIST LUST** **N/A**
1/4-1/2 **MOUNTAIN VIEW, CA 94043**
0.447 mi.
2360 ft. **Site 1 of 2 in cluster AB**

Relative:
Higher

Actual:
54 ft.

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 06S2W21A01f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported

UNOCAL #4769 (Continued) **S105194606**

Preliminary Site Assesment Began: 6/7/1991
Pollution Characterization Began: 11/27/1991
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 06S2W21A01
Oversite Agency: SCVWD
Date Listed: 1990-01-01 00:00:00
Closed Date: 1996-11-04 00:00:00

AB210 **UNOCAL #4769** **CA LUST** **S103880864**
South **510 SHORELINE BLVD** **CA HIST CORTESE** **N/A**
1/4-1/2 **MOUNTAIN VIEW, CA 94043** **CA CERS**
0.447 mi.
2360 ft. **Site 2 of 2 in cluster AB**

Relative:
Higher

Actual:
54 ft.

LUST:
Lead Agency: SANTA CLARA COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608501555
Global Id: T0608501555
Latitude: 37.402128
Longitude: -122.07877
Status: Completed - Case Closed
Status Date: 11/04/1996
Case Worker: UST
RB Case Number: Not reported
Local Agency: SANTA CLARA COUNTY LOP
File Location: All Files are on GeoTracker or in the Local Agency Database
Local Case Number: Not reported
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0608501555
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

Global Id: T0608501555
Contact Type: Local Agency Caseworker
Contact Name: UST CASE WORKER
Organization Name: SANTA CLARA COUNTY LOP
Address: 1555 Berger Drive, Suite 300
City: SAN JOSE
Email: Not reported
Phone Number: 4089183400

UNOCAL #4769 (Continued) **S103880864**

LUST:
Global Id: T0608501555
Action Type: Other
Date: 06/28/1989
Action: Leak Reported

Global Id: T0608501555
Action Type: RESPONSE
Date: 11/04/1996
Action: Other Report / Document

Global Id: T0608501555
Action Type: ENFORCEMENT
Date: 11/04/1996
Action: Closure/No Further Action Letter

Global Id: T0608501555
Action Type: ENFORCEMENT
Date: 03/07/1991
Action: Notice of Responsibility - #40128

Global Id: T0608501555
Action Type: REMEDIATION
Date: 06/28/1989
Action: Excavation

LUST:
Global Id: T0608501555
Status: Completed - Case Closed
Status Date: 11/04/1996

Global Id: T0608501555
Status: Open - Case Begin Date
Status Date: 06/28/1989

Global Id: T0608501555
Status: Open - Site Assessment
Status Date: 06/07/1991

Global Id: T0608501555
Status: Open - Site Assessment
Status Date: 11/27/1991

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 06S2W21A01F
Date Closed: 11/04/1996
EDR Link ID: 06S2W21A01F

HIST CORTESE:
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-1598

UNOCAL #4769 (Continued) **S103880864**

CERS TANKS:
Site ID: 190409
CERS ID: T0608501555
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Local Agency Caseworker
Entity Name: UST CASE WORKER - SANTA CLARA COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: SAN JOSE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 4089183400

AC211 **PLYMOUTH GROUP** **CA HIST CORTESE** **S101542511**
North **1616 SHORELINE** **N/A**
1/4-1/2 **MOUNTAIN VIEW, CA**
0.447 mi.
2360 ft. **Site 1 of 2 in cluster AC**

Relative: **Lower**
Actual: **19 ft.**

HIST CORTESE:
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-1758

AC212 **SYSTEM BIOSCIENCES LLC** **CA CPS-SLIC** **S113145190**
North **1616 N SHORELINE BLVD STE A** **CA HAZNET** **N/A**
1/4-1/2 **MOUNTAIN VIEW, CA 94043** **CA CERS**
0.447 mi.
2360 ft. **Site 2 of 2 in cluster AC**

Relative: **Lower**
Actual: **19 ft.**

CPS-SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 10/16/2015
Global Id: T10000007799
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.41702
Longitude: -122.0787
Case Type: Cleanup Program Site
Case Worker: UUU

SYSTEM BIOSCIENCES LLC (Continued) **S113145190**

Local Agency: Not reported
RB Case Number: 43S0507
File Location: Not reported
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

HAZNET:
Facility Name: SYSTEM BIOSCIENCES LLC
envid: S113145190
Year: 2010
GEPAID: CAL000313531
Contact: DAN CLOUTIER-FACILITIES MGR
Telephone: 6503300322
Mailing Name: Not reported
Mailing Address: PO BOX 390
Mailing City,St,Zip: PALO ALTO, CA 943020000
Gen County: Not reported
TSD EPA ID: CAD008252405
TSD County: Not reported
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.0165
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Santa Clara

envid: S113145190
Year: 2010
GEPAID: CAL000313531
Contact: DAN CLOUTIER-FACILITIES MGR
Telephone: 6503300322
Mailing Name: Not reported
Mailing Address: PO BOX 390
Mailing City,St,Zip: PALO ALTO, CA 943020000
Gen County: Not reported
TSD EPA ID: CAD982444481
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.03
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Santa Clara

envid: S113145190
Year: 2009
GEPAID: CAL000313531
Contact: PAUL SIEBERT/PHD
Telephone: 6509682200
Mailing Name: Not reported
Mailing Address: PO BOX 390
Mailing City,St,Zip: PALO ALTO, CA 943020000
Gen County: Not reported

SYSTEM BIOSCIENCES LLC (Continued) **S113145190**

TSD EPA ID:	CAD982444481
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.02919
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

envid:	S113145190
Year:	2008
GEPAID:	CAL000313531
Contact:	PAUL SIEBERT/PHD
Telephone:	6509682200
Mailing Name:	Not reported
Mailing Address:	PO BOX 390
Mailing City,St,Zip:	PALO ALTO, CA 943020000
Gen County:	Not reported
TSD EPA ID:	CAD982444481
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0175
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

CERS TANKS:

Site ID:	359443
CERS ID:	T10000007799
CERS Description:	Cleanup Program Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

AD213 **BUFFALOW'S INC.** **CA LUST** **S101309058**
NNE **1245 SPACE PARK WY** **CA HIST LUST** **N/A**
1/4-1/2 **MOUNTAIN VIEW, CA 94043** **CA HIST CORTESE**
0.457 mi.
2414 ft. **Site 1 of 2 in cluster AD**

Relative:
Lower

Actual:
19 ft.

LUST:

Lead Agency:	SANTA CLARA COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608500271
Global Id:	T0608500271
Latitude:	37.417074

BUFFALOW'S INC. (Continued) **S101309058**

Longitude:	-122.073911
Status:	Completed - Case Closed
Status Date:	07/19/2000
Case Worker:	UST
RB Case Number:	Not reported
Local Agency:	SANTA CLARA COUNTY LOP
File Location:	All Files are on GeoTracker or in the Local Agency Database
Local Case Number:	Not reported
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0608500271
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

Global Id:	T0608500271
Contact Type:	Local Agency Caseworker
Contact Name:	UST CASE WORKER
Organization Name:	SANTA CLARA COUNTY LOP
Address:	1555 Berger Drive, Suite 300
City:	SAN JOSE
Email:	Not reported
Phone Number:	4089183400

LUST:

Global Id:	T0608500271
Action Type:	Other
Date:	02/09/1987
Action:	Leak Reported

Global Id:	T0608500271
Action Type:	ENFORCEMENT
Date:	07/27/1999
Action:	Staff Letter - #30685

Global Id:	T0608500271
Action Type:	ENFORCEMENT
Date:	03/18/1993
Action:	Notice of Responsibility - #40177

Global Id:	T0608500271
Action Type:	ENFORCEMENT
Date:	07/19/2000
Action:	Closure/No Further Action Letter

Global Id:	T0608500271
Action Type:	RESPONSE
Date:	07/21/2000
Action:	Other Report / Document

BUFFALOW'S INC. (Continued) **S101309058**

Global Id: T0608500271
Action Type: RESPONSE
Date: 09/30/1999
Action: Monitoring Report - Quarterly

LUST:
Global Id: T0608500271
Status: Completed - Case Closed
Status Date: 07/19/2000

Global Id: T0608500271
Status: Open - Case Begin Date
Status Date: 11/19/1986

Global Id: T0608500271
Status: Open - Site Assessment
Status Date: 11/19/1986

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 06S2W15D01f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 11/19/1986
Pollution Characterization Began: 11/19/1986
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 06S2W15D01F
Date Closed: 07/19/2000
EDR Link ID: 06S2W15D01F

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 06S2W15D01
Oversite Agency: SCVWD
Date Listed: 1988-01-01 00:00:00
Closed Date: 2000-07-19 00:00:00

HIST CORTESE:
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-0211

AD214 **TCI** **CA CPS-SLIC** **S101542364**
NNE **1245 1675 SPACE PKWY** **N/A**
1/4-1/2 **MOUNTAIN VIEW, CA 94043**
0.460 mi.
2431 ft. **Site 2 of 2 in cluster AD**

Relative:
Lower

Actual:
18 ft.

SLIC REG 2:
Region: 2
Facility ID: 43S0282
Facility Status: Remediation Plan
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: 1/11/1993
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

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215 **IMCS** **CA LUST** **S100234801**
North **1300 SPACE PARK WY** **CA HIST LUST** **N/A**
1/4-1/2 **MOUNTAIN VIEW, CA 94043** **CA HIST CORTESE**
0.463 mi. **CA CERS**
2444 ft.

Relative:
Lower

Actual:
18 ft.

LUST:
Lead Agency: SANTA CLARA COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608500741
Global Id: T0608500741
Latitude: 37.417254
Longitude: -122.074807
Status: Completed - Case Closed
Status Date: 02/29/1996
Case Worker: UST
RB Case Number: Not reported
Local Agency: SANTA CLARA COUNTY LOP
File Location: All Files are on GeoTracker or in the Local Agency Database
Local Case Number: Not reported
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0608500741
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

Global Id: T0608500741
Contact Type: Local Agency Caseworker
Contact Name: UST CASE WORKER

IMCS (Continued) **S100234801**

Organization Name: SANTA CLARA COUNTY LOP
Address: 1555 Berger Drive, Suite 300
City: SAN JOSE
Email: Not reported
Phone Number: 4089183400

LUST:
Global Id: T0608500741
Action Type: Other
Date: 01/01/1988
Action: Leak Reported

Global Id: T0608500741
Action Type: ENFORCEMENT
Date: 02/29/1996
Action: Closure/No Further Action Letter

Global Id: T0608500741
Action Type: RESPONSE
Date: 02/29/1996
Action: Other Report / Document

LUST:
Global Id: T0608500741
Status: Completed - Case Closed
Status Date: 02/29/1996

Global Id: T0608500741
Status: Open - Case Begin Date
Status Date: 01/01/1988

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 06S2W15D02f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 06S2W15D02F
Date Closed: 02/29/1996
EDR Link ID: 06S2W15D02F

IMCS (Continued) **S100234801**

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 06S2W15D02
Oversite Agency: SCVWD
Date Listed: 1989-01-01 00:00:00
Closed Date: 1996-02-29 00:00:00

HIST CORTESE:
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-0714

CERS TANKS:
Site ID: 216650
CERS ID: T0608500741
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: UST CASE WORKER - SANTA CLARA COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: SAN JOSE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 4089183400

Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

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216 **EMT LABS** **CA CPS-SLIC S120762579**
NNW **1547 PLYMOUTH ST** **CA CERS N/A**
1/4-1/2 **MOUNTAIN VIEW, CA 94043**
0.470 mi.
2482 ft.

Relative:
Lower

Actual:
21 ft.

CPS-SLIC:
Region: STATE
Facility Status: **Open - Remediation**
Status Date: 11/06/2018
Global Id: T10000010142
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.41626
Longitude: -122.0816
Case Type: Cleanup Program Site

EMT LABS (Continued) **S120762579**

Case Worker:	CH
Local Agency:	Not reported
RB Case Number:	43S1215
File Location:	All Files are on GeoTracker or in the Local Agency Database
Potential Media Affected:	Indoor Air, Soil Vapor
Potential Contaminants of Concern:	Trichloroethylene (TCE)
Site History:	Electro Magnetic Testing Labs (EMT) business has operated at the address for approximately 20 years. The business is an engineering laboratory providing EMC compliance testing services to local manufacturers of consumer electronics. EMT will be expanding their operations and building a new lab building. The site is within the footprint of the Teledyne and Spectra-Physics plume of volatile organic compound (VOC)-affected groundwater. In 2016, trichloroethene was detected at 190 micrograms per liter in groundwater samples collected near the site. The VOC-affected groundwater creates a vapor intrusion concern at the proposed development and should be fully evaluated and mitigated to protect the health of future building occupants. Based on groundwater monitoring data from nearby sites, groundwater flow direction is north-northwest and shallow groundwater is between approximately 5 and 20 feet below grade (Montwood site).

Click here to access the California GeoTracker records for this facility:

CERS TANKS:

Site ID:	421665
CERS ID:	T10000010142
CERS Description:	Cleanup Program Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	CELINA HERNANDEZ - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 Clay Street, suite 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	5106222447

AE217 **ELEXSYS INTERNATIONAL INC** **CA ENVIROSTOR** **S104574296**
NW **1625 PLYMOUTH STREET** **CA CPS-SLIC** **N/A**
1/4-1/2 **MOUNTAIN VIEW, CA 94043** **CA EMI**
0.477 mi.
2521 ft. **Site 1 of 2 in cluster AE**

Relative:
Lower

Actual:
22 ft.

ENVIROSTOR:

Facility ID:	71002873
Status:	Refer: RWQCB
Status Date:	04/15/2016
Site Code:	Not reported
Site Type:	Tiered Permit
Site Type Detailed:	Tiered Permit
Acres:	4.2
NPL:	NO
Regulatory Agencies:	RWQCB 2 - San Francisco Bay
Lead Agency:	RWQCB 2 - San Francisco Bay
Program Manager:	Not reported

ELEXSYS INTERNATIONAL INC (Continued) **S104574296**

Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Assembly: 24
Senate: 13
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.41579
Longitude: -122.0829
APN: 11613032
Past Use: MANUFACTURING - OTHER
Potential COC: Tetrachloroethylene (PCE Trichloroethylene (TCE
Confirmed COC: Tetrachloroethylene (PCE Trichloroethylene (TCE
Potential Description: OTH
Alias Name: 11613032
Alias Type: APN
Alias Name: CAD981572803
Alias Type: EPA Identification Number
Alias Name: 110000482415
Alias Type: EPA (FRS #)
Alias Name: SL18253674
Alias Type: GeoTracker Global ID
Alias Name: 71002873
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: 03/31/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 04/15/2016
Comments: DTSC performed a site screening to determine whether any releases of hazardous substances or wastes have occurred at the site that require DTSC to pursue corrective actions. Arrowhead Development Company operated an amusement park equipment manufacturing facility from 1960 through 1980 on and 8-acre project that included the site. TCE was reportedly used at the facility for vapor degreasing. There were subsequent changes in the site ownership. Sanmina purchased the property in 1999 and operated four hazardous waste treatment units under permit-by-rule, including two Memtek wastewater treatment units, a batch treatment unit, and ion-exchange unit. The site is part of the Plymouth Street Site where the Regional Water Quality Control Board has been overseeing the investigation and remediation.

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

ELEXSYS INTERNATIONAL INC (Continued) **S104574296**

Schedule Revised Date: Not reported

CPS-SLIC:

Region:	STATE
Facility Status:	**Open - Remediation**
Status Date:	06/28/2017
Global Id:	SL18253674
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	Not reported
Latitude:	37.4159988845966
Longitude:	-122.084155082703
Case Type:	Cleanup Program Site
Case Worker:	RWP
Local Agency:	SANTA CLARA VALLEY WATER DISTRICT
RB Case Number:	43S0217
File Location:	Regional Board
Potential Media Affected:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Other Chlorinated Hydrocarbons, Tetrachloroethylene (PCE), Trichloroethylene (TCE)
Site History:	The Montwood plume is within a much larger plume extending from the Teledyne/Spectra-Physics Superfund site. Groundwater extraction reduced on-property and nearby chlorinated VOCs (CVOCs) in groundwater to asymptotic levels. However, the CVOC plume extends off-property through and beyond the downgradient site at 1600 Plymouth Street,- presently owned by Peery/Arrillaga (P/A). The off-property charcacterizaion of the groundwater-CVOC plume has been completed with grab groundwater samples and additional wells. Off-property groundwater-CVOC extent has attenuated with natural attenuation. Responding to persistent Regional Water Board suggestions to re-characterize the site with high-resolution technology, the Responsible Party (UP) used MIP data plus three other data layers to successfully locate on-site CVOC source areas. Based on the data, the consultant selected enhanced reductive dechlorination (ERD) as the final remedy that is now in process at the on-property area. ERD has significantly decreased the on-property groundwater-CVOC levels with TCE now below MCLs. UP is about to conduct the first off-property ERD remedial task after extended access negotiations with Google. The off-property vapor intrusion evaluation may be incomplete.

Click here to access the California GeoTracker records for this facility:

EMI:

Year:	1995
County Code:	43
Air Basin:	SF
Facility ID:	5868
Air District Name:	BA
SIC Code:	3672
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	191
Reactive Organic Gases Tons/Yr:	191
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0

ELEXSYS INTERNATIONAL INC (Continued) **S104574296**

SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1996
County Code:	43
Air Basin:	SF
Facility ID:	5868
Air District Name:	BA
SIC Code:	3672
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1997
County Code:	43
Air Basin:	SF
Facility ID:	5868
Air District Name:	BA
SIC Code:	3672
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

AE218 **MONTWOOD** **CA DEED** **S105675064**
NW **1625 PLYMOUTH ST** **CA CHMIRS** **N/A**
1/4-1/2 **MOUNTAIN VIEW, CA 94043** **CA WDS**
0.477 mi. **CA CIWQS**
2521 ft. **Site 2 of 2 in cluster AE** **CA CERS**

Relative:
Lower

Actual:
22 ft.

DEED:

Envirostor ID:	SL18253674
Area:	Not reported
Sub Area:	Not reported
Site Type:	SLIC
Status:	OPEN - REMEDIATION
Agency:	SWRCB
Covenant Uploaded:	Y
Deed Date(s):	01/25/2007
File Name:	Geotracker Land Use/Deed Restrictions

CHMIRS:

OES Incident Number:	1-2573

MONTWOOD (Continued) **S105675064**

OES notification:	05/03/2001
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	storm drain
Spill Site:	Not reported
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2001
Agency:	UPRR
Incident Date:	5/3/200112:00:00 AM
Admin Agency:	Santa Clara County Health Department
Amount:	Not reported
Contained:	Yes
Site Type:	Industrial Plant
E Date:	Not reported
Substance:	Contaminated water
Gallons:	4300
Unknown:	0.000000
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported

MONTWOOD (Continued) **S105675064**

#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	A pipe failure in a groundwater vault resulted in the release of the substance into a storm drain
OES Incident Number:	15-2167
OES notification:	04/16/2015
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	Storm Drain
Spill Site:	Rail Road
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	OTHER
Measure:	Gal(s)
Other:	Contaminated Water
Date/Time:	1640
Year:	2015
Agency:	UPRR
Incident Date:	04/16/2015
Admin Agency:	Santa Clara County Department of Environmental Health
Amount:	Not reported

MONTWOOD (Continued) **S105675064**

Contained:	No
Site Type:	Storm Drain
E Date:	Not reported
Substance:	Contaminated Water
Quantity Released:	200
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	No
Fatals:	No
Comments:	Not reported
Description:	Caller states this release began a few years ago, the water was found to be bubbling up from the ground on UP property. Remediation is on going. A storm drain is impacted with an unknown amount of contaminated water. Per a report, the water is contaminated with TCE, unknown what that stands for. The release stops for awhile and starts again periodically. A CalOES Hazardous Materials report had been made for this release years ago but no one has that report number.

WDS:

Facility ID:	San Francisco Bay 43I014394
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	2
Facility Telephone:	4089545756
Facility Contact:	KHALID RUHULLAH
Agency Name:	SANMINA CORP
Agency Address:	355 E Trimble Rd
Agency City,St,Zip:	San Jose 951311218
Agency Contact:	MR KHALID RUHULLAH
Agency Telephone:	4085572450
Agency Type:	Private
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported

MONTWOOD (Continued) **S105675064**

Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

CIWQS:

Agency:	Khalid Ruhullah
Agency Address:	2121 Otoole, San Jose, CA 95131
Place/Project Type:	Industrial - Printed Circuit Boards
SIC/NAICS:	3672
Region:	2
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	2 43I014394
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	07/14/1998
Termination Date:	10/06/2009
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	37.4167
Longitude:	-122.08302

CERS TANKS:

Site ID:	230494
CERS ID:	SL18253674
CERS Description:	Cleanup Program Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Roger Papler - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY STREET, SUITE 1500

MONTWOOD (Continued) **S105675064**

Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

219
NW
1/2-1
0.565 mi.
2983 ft.

MT. VIEW JONES HALL USAR
1776 OLD MIDDLE FIELD WAY
MOUNTAIN VIEW, CA 94043

CA ENVIROSTOR **S103972660**
CA HIST Cal-Sites **N/A**

Relative:
Lower

Actual:
23 ft.

ENVIROSTOR:
Facility ID: 43970003
Status: Refer: RWQCB
Status Date: 01/01/2002
Site Code: 201106
Site Type: Military Evaluation
Site Type Detailed: Open Base
Acres: Not reported
NPL: NO
Regulatory Agencies: SMBRP, RWQCB 2 - San Francisco Bay
Lead Agency: RWQCB 2 - San Francisco Bay
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Sacramento
Assembly: 24
Senate: 13
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: DERA
Latitude: 37.41412
Longitude: -122.0862
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED No Contaminants found
Confirmed COC: 31000-NO
Potential Description: NONE SPECIFIED
Alias Name: USARC, MOUNTAIN VIEW
Alias Type: Alternate Name
Alias Name: T0608513275
Alias Type: GeoTracker Global ID
Alias Name: 201106
Alias Type: Project Code (Site Code)
Alias Name: 43970003
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: 01/22/2002
Comments: PEA - GRSRK -- Completed site investigation of soil and ground water at Site 3 (Grease Rack). TPH (gasoline) was found in one ground water sample above Water Board screening levels. Facility presented evidence that contamination was from off-site. Facilit was

MT. VIEW JONES HALL USAR (Continued) **S103972660**

transferred to Water Board lead.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

Calsite:

Region:	SACRAMENTO
Facility ID:	43970003
Facility Type:	OPEN
Type:	OPEN MILITARY BASE
Branch:	NO
Branch Name:	OMF-NORTHERN CALIF
File Name:	USARC, MOUNTAIN VIEW
State Senate District:	07011998
Status:	ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name:	ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
NPL:	Not Listed
SIC Code:	97
SIC Name:	NATIONAL SECURITY/INTERNATIONAL AFFAIRS
Access:	Not reported
Cortese:	Not reported
Hazardous Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Not reported
Staff Member Responsible for Site:	Not reported
Supervisor Responsible for Site:	Not reported
Region Water Control Board:	Not reported
Region Water Control Board Name:	Not reported
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:	22
State Senate District Code:	13
Facility ID:	43970003
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	BASWD
Proposed Budget:	0
AWP Completion Date:	07012005
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0

MT. VIEW JONES HALL USAR (Continued) **S103972660**

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:	43970003
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	GRSRK
Proposed Budget:	0
AWP Completion Date:	01222002
Revised Due Date:	Not reported
Comments Date:	01222002
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Alternate Address:	1776 OLD MIDDLE FIELD WAY
Alternate City,St,Zip:	MOUNTAIN VIEW, CA 94043
Background Info:	Facility size is approx. 7.06 acres. Sites include a grease rack and vehicle wash rack. A draft PA was completed in February 1999 and a final SI work plan was prepared in August 2000. The greas e rack was constructed in the early 1950s and is no longer used. The Army considers the wash rack to be a compliance (RCRA) issue for funding purposes. Minimal shallow soil sampling was conducte d in 1997 around the grease rack. Contaminants of concern are pr imarily grease oil, fuels, and solvents. Groundwater is shallow, approx 15 ft below ground furfact. Impacts to groundwater are u nknown, but will be determine by the August 2000 SI field work.
Comments Date:	01222002
Comments:	PEA - GRSRK -- Completed site investigation of soil and ground wa
Comments Date:	01222002
Comments:	ter at Site 3 (Grease Rack). TPH (gasoline) was found in one gro
Comments Date:	01222002
Comments:	und water sample above Water Board screening levels. Facility pr
Comments Date:	01222002
Comments:	esented evidence that contamination was from off-site. Facilit w
Comments Date:	01222002
Comments:	as transferred to Water Board lead.
Comments Date:	08302000
Comments:	PA/SI - WORK IN PROJRESS

MT. VIEW JONES HALL USAR (Continued) **S103972660**

ID Name: Not reported
ID Value: Not reported
Alternate Name: USARC, MOUNTAIN VIEW
Alternate Name: JONES HALL U.S. ARMY RESERVE CENTER
Alternate Name: Not reported
Special Programs Code: DSMOA
Special Programs Name: DEFENSE MEMORANDUM OF AGREEMENT

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220 West 1/2-1 0.616 mi. 3254 ft.

CALWEST PROPERTIES (SIERRA VISTA) **CA ENVIROSTOR** **S106568332**
465 SIERRA VISTA AVE **CA VCP** **N/A**
MOUNTAIN VIEW, CA 94043 **CA DEED**

Relative: Higher

Actual: 37 ft.

ENVIROSTOR:
Facility ID: 43010004
Status: Certified O&M - Land Use Restrictions Only
Status Date: 04/24/2014
Site Code: 201044
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 1
NPL: NO
Regulatory Agencies: SMBRP, CITY OF MOUNTAIN VIEW
Lead Agency: CITY OF MOUNTAIN VIEW,SMBRP
Program Manager: Claude Jemison
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Assembly: 24
Senate: 13
Special Program: Voluntary Cleanup Program
Restricted Use: YES
Site Mgmt Req: ASP, DAY, HOS, EX, GW, OIL, NSUB, SCH, FOOD
Funding: Responsible Party
Latitude: 37.40849
Longitude: -122.0891
APN: 150-52-015, 150-52-016
Past Use: PESTICIDE/INSECTIDE/RODENTICIDE STORAGE
Potential COC: Chlordane DDD DDE DDT
Confirmed COC: Chlordane DDD DDE DDT
Potential Description: SOIL
Alias Name: AERO INC
Alias Type: Alternate Name
Alias Name: CAL-WEST PROPERTIES
Alias Type: Alternate Name
Alias Name: CAL-WEST PROPERTIES (SIERRA VISTA)
Alias Type: Alternate Name
Alias Name: PIED-PIPER INC
Alias Type: Alternate Name
Alias Name: SIERRA VISTA PROPERTY
Alias Type: Alternate Name
Alias Name: 150-52-015
Alias Type: APN
Alias Name: 150-52-016
Alias Type: APN
Alias Name: CAD982400285
Alias Type: EPA Identification Number
Alias Name: 110033618324

CALWEST PROPERTIES (SIERRA VISTA) (Continued) **S106568332**

Alias Type: EPA (FRS #)
Alias Name: 200288
Alias Type: Project Code (Site Code)
Alias Name: 201044
Alias Type: Project Code (Site Code)
Alias Name: 43010004
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 03/13/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 03/16/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 04/11/2001
Comments: DTSC completed a Site Inspection Re-Assessment for the U.S. Environmental Protection Agency. As the lead regulatory agency for the Site, DTSC had approved a Removal Action Workplan for the Site on October 30, 1998. It was noted in the Site Inspection Re-Assessment that implementation of the Removal Action Workplan had been significantly delayed due to the City of Mountain View's building permit process and the Site owner's funding problem for construction of the multifamily residential buildings. Based on the Site Inspection Re-Assesment it was determined the Site did not qualify for further remedial site assessment under the Comprehensive Environmental Response, Compensation, and Liability Act.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 09/10/2009
Comments: The capped area includes the driveway entrance to the townhouse complex and includes parking areas, landscaped areas, and a sandbox. The concrete cap appeared to be in good condition, no major cracks were observed. There was no evidence of any activities prohibited by the Deed Restriction.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 10/07/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 09/22/2011
Comments: Not reported

CALWEST PROPERTIES (SIERRA VISTA) (Continued) **S106568332**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/30/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 07/19/2012
Comments: Demand letter #1

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 02/17/2012
Comments: Demand letter #2

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 08/28/2007
Comments: Completed 5 year review reports.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Design
Completed Date: 05/10/2001
Comments: Removal Design for selected alternative approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 10/28/2002
Comments: Approved Removal Action. Implementation of the RAW began in June 2001 and was completed in July 2002.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 09/30/1998
Comments: RAW to address pesticide-impacted soil approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 10/07/1997
Comments: Completed Site Screening. Investigations found primarily DDT and chlordane. Between 1985 and 1986, the on-site structures were demolished and cleared from the site. The Site was regraded and construction of residential townhouses began. The construction was discontinued due to the discovery of pesticide impacted soils.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 02/03/1989

CALWEST PROPERTIES (SIERRA VISTA) (Continued) **S106568332**

Comments:	Results from various sampling activities indicated elevated levels of pesticides.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	01/03/1989
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	05/26/2004
Comments:	Cap Inspection signed off 5/26/04.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	05/23/2005
Comments:	Cap Inspection signed off 5/23/05.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	5 Year Review Reports
Completed Date:	04/28/2014
Comments:	The Department of Toxic Substances Control (DTSC) performed a Five-Year Review to assure that the implemented remedy continues to be protective of public health, safety, and the environment. DTSC conducted as site visit as part of the Five-Year Review and observed the capped area to be in good condition and did not observe evidence of any activities prohibited by the Land Use Covenant. DTSC concluded that the remedy remains protective of human health and the environment.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	*Correspondence - Received
Completed Date:	03/25/2010
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Report
Completed Date:	11/12/2014
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction Monitoring Report
Completed Date:	06/03/2016
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation & Maintenance Order/Agreement
Completed Date:	04/29/2003
Comments:	Operation and Maintenance Agreement requires implementation of O&M

CALWEST PROPERTIES (SIERRA VISTA) (Continued) **S106568332**

Plan which outlines requirement to maintain cap.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 05/05/2003
Comments: Deed Restriction recorded for the capped area (on-site parking area).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Mitigated Neg. Dec. (MND)
Completed Date: 09/24/1998
Comments: Negative Declaration part of the Final RAW document.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 05/15/2003
Comments: Certification of completion of all remedial actions outlined in RAW.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 09/29/1997
Comments: Voluntary Cleanup Agreement with Beryl Anderson Trust.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 11/07/1985
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/12/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/21/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/15/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/09/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE

CALWEST PROPERTIES (SIERRA VISTA) (Continued) **S106568332**

Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/30/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/06/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 02/02/1998
Comments: VCA Amended to revise Project Schedule.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/07/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 12/15/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 05/07/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/29/2007
Comments: No problems noted during the inspection.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 01/19/2012
Comments: Demand letter #1

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 03/17/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/17/2018

CALWEST PROPERTIES (SIERRA VISTA) (Continued) **S106568332**

Comments:	DTSC provided an annual oversight cost estimate for fiscal year 2018/2019.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	10/18/2004
Comments:	Certification amendment to add parcels located at 1905 San Ramon Avenue. As part of the cleanup, all contaminated soil was excavated to unrestricted levels and removed from this parcel.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	07/24/2008
Comments:	The concrete cap appeared to be in good condition, no major cracks were observed. There was no evidence of any activities prohibited by the Deed Restriction.
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	5 Year Review Reports
Future Due Date:	2019
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Operations and Maintenance Report
Schedule Due Date:	04/30/2019
Schedule Revised Date:	Not reported

VCP:

Facility ID:	43010004
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	ASP, DAY, HOS, EX, GW, OIL, NSUB, SCH, FOOD
Acres:	1
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP, CITY OF MOUNTAIN VIEW
Lead Agency:	CITY OF MOUNTAIN VIEW,SMBRP
Lead Agency Description:	MOUNTAIN VIEW, CITY OF
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Claude Jemison
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Site Code:	201044
Assembly:	24
Senate:	13
Special Programs Code:	Voluntary Cleanup Program
Status:	Certified O&M - Land Use Restrictions Only
Status Date:	04/24/2014
Restricted Use:	YES
Funding:	Responsible Party
Lat/Long:	37.40849 / -122.0891
APN:	150-52-015, 150-52-016
Past Use:	PESTICIDE/INSECTIDE/RODENTICIDE STORAGE
Potential COC:	30004, 30006, 30007, 30008
Confirmed COC:	30004,30006,30007,30008
Potential Description:	SOIL

CALWEST PROPERTIES (SIERRA VISTA) (Continued) **S106568332**

Alias Name:	AERO INC
Alias Type:	Alternate Name
Alias Name:	CAL-WEST PROPERTIES
Alias Type:	Alternate Name
Alias Name:	CAL-WEST PROPERTIES (SIERRA VISTA)
Alias Type:	Alternate Name
Alias Name:	PIED-PIPER INC
Alias Type:	Alternate Name
Alias Name:	SIERRA VISTA PROPERTY
Alias Type:	Alternate Name
Alias Name:	150-52-015
Alias Type:	APN
Alias Name:	150-52-016
Alias Type:	APN
Alias Name:	CAD982400285
Alias Type:	EPA Identification Number
Alias Name:	110033618324
Alias Type:	EPA (FRS #)
Alias Name:	200288
Alias Type:	Project Code (Site Code)
Alias Name:	201044
Alias Type:	Project Code (Site Code)
Alias Name:	43010004
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Report
Completed Date:	03/13/2017
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Report
Completed Date:	03/16/2018
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	04/11/2001
Comments:	DTSC completed a Site Inspection Re-Assessment for the U.S. Environmental Protection Agency. As the lead regulatory agency for the Site, DTSC had approved a Removal Action Workplan for the Site on October 30, 1998. It was noted in the Site Inspection Re-Assessment that implementation of the Removal Action Workplan had been significantly delayed due to the City of Mountain View's building permit process and the Site owner's funding problem for construction of the multifamily residential buildings. Based on the Site Inspection Re-Assesment it was determined the Site did not qualify for further remedial site assessment under the Comprehensive Environmental Response, Compensation, and Liability Act.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	09/10/2009

CALWEST PROPERTIES (SIERRA VISTA) (Continued) **S106568332**

Comments:	The capped area includes the driveway entrance to the townhouse complex and includes parking areas, landscaped areas, and a sandbox. The concrete cap appeared to be in good condition, no major cracks were observed. There was no evidence of any activities prohibited by the Deed Restriction.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	10/07/2010
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	09/22/2011
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/30/2009
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Letter - Demand
Completed Date:	07/19/2012
Comments:	Demand letter #1
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Letter - Demand
Completed Date:	02/17/2012
Comments:	Demand letter #2
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	5 Year Review Reports
Completed Date:	08/28/2007
Comments:	Completed 5 year review reports.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Design
Completed Date:	05/10/2001
Comments:	Removal Design for selected alternative approved.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	10/28/2002
Comments:	Approved Removal Action. Implementation of the RAW began in June 2001 and was completed in July 2002.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

CALWEST PROPERTIES (SIERRA VISTA) (Continued) **S106568332**

Completed Document Type: Removal Action Workplan
Completed Date: 09/30/1998
Comments: RAW to address pesticide-impacted soil approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 10/07/1997
Comments: Completed Site Screening. Investigations found primarily DDT and chlordane. Between 1985 and 1986, the on-site structures were demolished and cleared from the site. The Site was regraded and construction of residential townhouses began. The construction was discontinued due to the discovery of pesticide impacted soils.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 02/03/1989
Comments: Results from various sampling activities indicated elevated levels of pesticides.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 01/03/1989
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/26/2004
Comments: Cap Inspection signed off 5/26/04.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/23/2005
Comments: Cap Inspection signed off 5/23/05.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 04/28/2014
Comments: The Department of Toxic Substances Control (DTSC) performed a Five-Year Review to assure that the implemented remedy continues to be protective of public health, safety, and the environment. DTSC conducted as site visit as part of the Five-Year Review and observed the capped area to be in good condition and did not observe evidence of any activities prohibited by the Land Use Covenant. DTSC concluded that the remedy remains protective of human health and the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 03/25/2010
Comments: Not reported

CALWEST PROPERTIES (SIERRA VISTA) (Continued) **S106568332**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 11/12/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 06/03/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation & Maintenance Order/Agreement
Completed Date: 04/29/2003
Comments: Operation and Maintenance Agreement requires implementation of O&M Plan which outlines requirement to maintain cap.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 05/05/2003
Comments: Deed Restriction recorded for the capped area (on-site parking area).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Mitigated Neg. Dec. (MND)
Completed Date: 09/24/1998
Comments: Negative Declaration part of the Final RAW document.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 05/15/2003
Comments: Certification of completion of all remedial actions outlined in RAW.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 09/29/1997
Comments: Voluntary Cleanup Agreement with Beryl Anderson Trust.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 11/07/1985
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/12/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

CALWEST PROPERTIES (SIERRA VISTA) (Continued) **S106568332**

Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/21/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/15/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/09/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/30/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/06/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 02/02/1998
Comments: VCA Amended to revise Project Schedule.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/07/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 12/15/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 05/07/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/29/2007
Comments: No problems noted during the inspection.

CALWEST PROPERTIES (SIERRA VISTA) (Continued) **S106568332**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 01/19/2012
Comments: Demand letter #1

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 03/17/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/17/2018
Comments: DTSC provided an annual oversight cost estimate for fiscal year 2018/2019.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 10/18/2004
Comments: Certification amendment to add parcels located at 1905 San Ramon Avenue. As part of the cleanup, all contaminated soil was excavated to unrestricted levels and removed from this parcel.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 07/24/2008
Comments: The concrete cap appeared to be in good condition, no major cracks were observed. There was no evidence of any activities prohibited by the Deed Restriction.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2019
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Operations and Maintenance Report
Schedule Due Date: 04/30/2019
Schedule Revised Date: Not reported

DEED:
Envirostor ID: 43010004
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: VOLUNTARY CLEANUP
Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 05/05/2003
File Name: Envirostor Land Use Restrictions

221 South 1/2-1 0.681 mi. 3594 ft.

CAMELLIA PARK DEVELOPMENT
333 STIERLIN ROAD
MOUNTAIN VIEW, CA 94040

CA ENVIROSTOR **S101482289**
N/A

Relative: Higher

Actual: 62 ft.

ENVIROSTOR:

Facility ID:	43150002
Status:	Refer: Other Agency
Status Date:	11/29/1988
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:	24
Senate:	13
Special Program:	* CERC2
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	37.39868
Longitude:	-122.0775
APN:	153-26-040
Past Use:	NONE SPECIFIED
Potential COC:	* Pesticides - Wastes From Production * CONTAMINATED SOIL
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	153-26-040
Alias Type:	APN
Alias Name:	CAD982400277
Alias Type:	EPA Identification Number
Alias Name:	43150002
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Assessment Report
Completed Date:	11/29/1988
Comments:	INSPECTION(STATE) SOILS CONTAMINATED W/ LOW LEVELS OF PESTICIDES. CONTAM SOILS CAPPED BENEATH ASPHALT ROADS PRELIM ASSESS DONE DEED RESTRICTION TIED TO CONTAMINATION AT PROPERTY, THEREFORE, PENDING STATUS
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	10/09/1987
Comments:	SITE SCREENING DONE PESTICIDES ONSITE FROM GREENHOUSE OPS. SITE TO BE DEVELOPED FOR RESIDENTIAL USE
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported

CAMELLIA PARK DEVELOPMENT (Continued) **S101482289**

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

AF222 **ACUSON CORP., BLDG J-K-L** **CA ENVIROSTOR** **S108755137**
NNE **1245 CHARLESTON ROAD** **N/A**
1/2-1 **MOUNTAIN VIEW, CA 94043**
0.705 mi.
3725 ft. **Site 1 of 2 in cluster AF**

Relative:
Lower

Actual:
14 ft.

ENVIROSTOR:

Facility ID:	71003398
Status:	Inactive - Needs Evaluation
Status Date:	Not reported
Site Code:	Not reported
Site Type:	Tiered Permit
Site Type Detailed:	Tiered Permit
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Not reported
Division Branch:	Cleanup Berkeley
Assembly:	24
Senate:	13
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	37.42011
Longitude:	-122.0742
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CAL913383349
Alias Type:	EPA Identification Number
Alias Name:	71003398
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported

ACUSON CORP., BLDG J-K-L (Continued) **S108755137**

Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

223
NW
1/2-1
0.708 mi.
3739 ft.

CTS PRINTEX CORPORATION
1950 COLONY STREET
MOUNTAIN VIEW, CA 94043

CA BOND EXP. PLAN **S100833462**
N/A

Relative:
Lower

Actual:
22 ft.

CA BOND EXP. PLAN:

Reponsible Party:	RWQCB REFERRAL SITE
Project Revenue Source Company:	Not reported
Project Revenue Source Addr:	Not reported
Project Revenue Source City,St,Zip:	Not reported
Project Revenue Source Desc:	This site is proposed for the National Priority List. The RWQCB will continue to have lead responsibility for monitoring the RP's remedial activities. Until such time as the RWQCB refers the site to DHS for follow-up using Bond funds, no money will be budgeted from the fund for this site.
Site Description:	CTS Printex Corporation (Printex) is located on 5.6 acres of land at 1950 Colony Street in Mountain View, California. Currently, the site is inactive. From 1966 to 1985 Printex operated a printed circuit board manufacturing facility onsite.
Hazardous Waste Desc:	Soil under the site contains elevated levels of copper, lead, trichloroethylene (TCE) and 1,1,1-trichloroethane (TCA). Contaminants in the ground water include TCA, TCE and 1,1-dichloroethylene (DCE).
Threat To Public Health & Env:	Roughly 188,000 people in Mountain View depend on ground water drawn from the aquifer of concern for their drinking water. The nearest municipal well drawing from the aquifer, Mountain View #10, is 1.1 mile from the site. The alternative surface drinking water sources appear to be inadequate to supply the large population currently relying on local ground water.
Site Activity Status:	Site investigation and remediation activities at the Printex facility were started in December, 1984. Organic chemical contamination appears to have resulted from the wet floor operation. Approximately 255 cubic yards of soil from the wet floor areawere excavated for offsite disposal. A quarterly monitoring program has been in implementation for all existing wells. The down gradient spread of chemicals has tentatively been established at approximately 600 feet beyond the property boundary. Ground water extraction facilities have been designed and wells constructed in order to contain the spread of contaminants in ground water. The Regional Water Quality Control Board issued a cleanup and abatement order in March, 1987.

AF224
NNE
1/2-1
0.712 mi.
3761 ft.

ACUSON CORP., BLDG F
1215 CHARLESTON ROAD
MOUNTAIN VIEW, CA 94043

Site 2 of 2 in cluster AF

CA ENVIROSTOR **S118757442**
N/A

Relative:
Lower

Actual:
14 ft.

ENVIROSTOR:

Facility ID:	71003109
Status:	No Action Required
Status Date:	Not reported
Site Code:	Not reported
Site Type:	Tiered Permit
Site Type Detailed:	Tiered Permit
Acres:	Not reported

ACUSON CORP., BLDG F (Continued) **S118757442**

NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Berkeley
Assembly: 24
Senate: 13
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.41956
Longitude: -122.0721
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD982516619
Alias Type: EPA Identification Number
Alias Name: 71003109
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

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225 East 1/2-1 0.724 mi. 3822 ft.

MOFFETT MIL AIRFIELD **CA ENVIROSTOR** **S107736758**
N/A

MOFFETT NAS, CA

Relative: Lower

Actual: 35 ft.

ENVIROSTOR:
Facility ID: 80000017
Status: No Further Action
Status Date: 11/02/2011
Site Code: Not reported
Site Type: Military Evaluation
Site Type Detailed: FUDS
Acres: 114
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP

MOFFETT MIL AIRFIELD (Continued) **S107736758**

Program Manager:	Not reported
Supervisor:	Carrie Tatoian-Cain
Division Branch:	Cleanup Sacramento
Assembly:	24
Senate:	13
Special Program:	DSMOA
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	DERA
Latitude:	37.40805
Longitude:	-122.0625
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CA99799F523900
Alias Type:	Federal Facility ID
Alias Name:	J09CA0021
Alias Type:	INPR
Alias Name:	80000017
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	No Department of Defense Action Indicated (NDAI)
Completed Date:	06/22/2011
Comments:	No further action based on the information provided in NDAI. If future information indicates a release by the Department of Defense the DTSC will investigate the property again.
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

226
South
1/2-1
0.736 mi.
3887 ft.

Relative:
Higher

Actual:
64 ft.

INNERCONN TECH & UNION BK
327 MOFFETT
MOUNTAIN VIEW, CA 94035

CA RESPONSE **S101542366**
CA ENVIROSTOR **N/A**
CA CPS-SLIC
CA DEED
CA Cortese
CA ENF
CA HIST CORTESE
CA CERS

RESPONSE:

Facility ID:	43360066
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	Not reported
National Priorities List:	NO
Cleanup Oversight Agencies:	RWQCB 2 - San Francisco Bay

INNERCONN TECH & UNION BK (Continued) **S101542366**

Lead Agency Description:	RWQCB 2 - San Francisco Bay
Project Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Berkeley
Site Code:	Not reported
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	24
Senate:	13
Special Program Status:	* CERC2
Status:	Refer: RWQCB
Status Date:	05/01/1987
Restricted Use:	NO
Funding:	Responsible Party
Latitude:	37.39786
Longitude:	-122.0752
APN:	158-45-003
Past Use:	NONE SPECIFIED
Potential COC :	* HALOGENATED SOLVENTS * HYDROCARBON SOLVENTS * Metals - Other Inorganic Solid Waste * UNSPECIFIED SLUDGE WASTE * UNSPECIFIED SOLVENT MIXTURES Lead Nickel
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	C & Z CIRCUITS (1971-1979)
Alias Type:	Alternate Name
Alias Name:	INNERCONN TECHNOLOGIES
Alias Type:	Alternate Name
Alias Name:	RAYTHEON CORPORATION (1967-1971)
Alias Type:	Alternate Name
Alias Name:	158-45-003
Alias Type:	APN
Alias Name:	CAD982400301
Alias Type:	EPA Identification Number
Alias Name:	110002645889
Alias Type:	EPA (FRS #)
Alias Name:	110033615069
Alias Type:	EPA (FRS #)
Alias Name:	43360066
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	08/01/1989
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Assessment Report
Completed Date:	05/01/1988
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	03/01/1988
Comments:	Not reported

INNERCONN TECH & UNION BK (Continued) **S101542366**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 01/01/1984
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 43360066
Status: Refer: RWQCB
Status Date: 05/01/1987
Site Code: Not reported
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: Not reported
NPL: NO
Regulatory Agencies: RWQCB 2 - San Francisco Bay
Lead Agency: RWQCB 2 - San Francisco Bay
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Berkeley
Assembly: 24
Senate: 13
Special Program: * CERC2
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.39786
Longitude: -122.0752
APN: 158-45-003
Past Use: NONE SPECIFIED
Potential COC: * HALOGENATED SOLVENTS * HYDROCARBON SOLVENTS * Metals - Other Inorganic Solid Waste * UNSPECIFIED SLUDGE WASTE * UNSPECIFIED SOLVENT MIXTURES Lead Nickel
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: C & Z CIRCUITS (1971-1979)
Alias Type: Alternate Name
Alias Name: INNERCONN TECHNOLOGIES
Alias Type: Alternate Name
Alias Name: RAYTHEON CORPORATION (1967-1971)
Alias Type: Alternate Name
Alias Name: 158-45-003
Alias Type: APN
Alias Name: CAD982400301
Alias Type: EPA Identification Number
Alias Name: 110002645889
Alias Type: EPA (FRS #)

INNERCONN TECH & UNION BK (Continued) **S101542366**

Alias Name: 110033615069
Alias Type: EPA (FRS #)
Alias Name: 43360066
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 08/01/1989
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 05/01/1988
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 03/01/1988
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 01/01/1984
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CPS-SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 04/23/2013
Global Id: SL18212592
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.3977098903459
Longitude: -122.075593471527
Case Type: Cleanup Program Site
Case Worker: MBR
Local Agency: Not reported
RB Case Number: 43S0241
File Location: Regional Board
Potential Media Affected: Indoor Air, Other Groundwater (uses other than drinking water), Soil, Soil Vapor
Potential Contaminants of Concern: 1,1,1-Trichloroethane (TCA), Other Chlorinated Hydrocarbons,

INNERCONN TECH & UNION BK (Continued) **S101542366**

Trichloroethylene (TCE)

Site History: In 1983, Union Bank of California took over ownership of the site when Innerconn Technologies, the owner and operator of the site at the time, went bankrupt and defaulted on their loan. Trichloroethylene (or TCE) was discovered in the groundwater at about this time. TCE was a common solvent used and stored by the electronics manufacturing industry. Union Bank conducted a site investigation shortly after inheriting the site. The Board issued Site Cleanup Requirements in 1989 naming Union Bank and Innerconn Technologies as responsible parties. In 1989, the former manufacturing building was razed and a strip mall was built in approximately the same footprint. The strip mall continues to operate today. In 1992, Union Bank installed a pump and treat system to reduce TCE levels and to control off-site migration. In 2001, we allowed Union Bank to turn off the pump and treat system because TCE concentrations had declined and operating the system was no longer necessary. We expect that TCE concentrations will continue to decline over time due to natural degradation processes. While TCE concentrations are still above the drinking water cleanup goals, the residual contamination does not present an immediate threat to human health or the environment because the concentrations are relatively low, the groundwater plume is not migrating, and the shallow groundwater aquifer in this area is not currently used for any purpose.

Click here to access the California GeoTracker records for this facility:

SLIC REG 2:
Region: 2
Facility ID: 43s0241
Facility Status: Remediation Plan
Date Closed: Not reported
Local Case #: Not reported
How Discovered: UNK
Leak Cause: Not reported
Leak Source: Not reported
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

DEED:
Envirostor ID: SL18212592
Area: Not reported
Sub Area: Not reported
Site Type: SLIC
Status: COMPLETED - CASE CLOSED
Agency: SWRCB
Covenant Uploaded: Y
Deed Date(s): 02/28/2013
File Name: Geotracker Land Use/Deed Restrictions

INNERCONN TECH & UNION BK (Continued) **S101542366**

CORTESE:

Region:	CORTESE
Envirostor 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:	2
WID Id:	2 438301N01
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Cease Desist Orders & Cleanup Abatement Orders

Region:	CORTESE
Envirostor 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:	2
WID Id:	2 438301N01
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Cease Desist Orders & Cleanup Abatement Orders

Region:	CORTESE
Envirostor 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

INNERCONN TECH & UNION BK (Continued) **S101542366**

Effective Date:	Not reported
Region 2:	2
WID Id:	2 438301N01
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Cease Desist Orders & Cleanup Abatement Orders

ENF:

Region:	2
Facility Id:	232485
Agency Name:	Union Bank of California Hazmat Dept
Place Type:	Manufacturing
Place Subtype:	Manufacturing NEC
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	3471
SIC Desc 1:	Electroplating, Plating, Polishing, Anodizing, and Coloring
SIC Code 2:	3674
SIC Desc 2:	Semiconductors and Related Devices
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UNREGS
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 438301N01
Reg Measure Id:	162249
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active

INNERCONN TECH & UNION BK (Continued) **S101542366**

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):	222748
Region:	2
Order / Resolution Number:	89-079
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	05/17/1989
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 - 2 438301N01
Description:	ENF ORDER
Program:	UNREGS
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

Region:	2
Facility Id:	232485
Agency Name:	Union Bank of California Hazmat Dept
Place Type:	Manufacturing
Place Subtype:	Manufacturing NEC
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	3471
SIC Desc 1:	Electroplating, Plating, Polishing, Anodizing, and Coloring
SIC Code 2:	3674
SIC Desc 2:	Semiconductors and Related Devices
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

INNERCONN TECH & UNION BK (Continued) **S101542366**

NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UNREGS
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 438301N01
Reg Measure Id:	162249
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/21/2013
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):	222637
Region:	2
Order / Resolution Number:	90-091
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	06/20/1990
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 - 2 438301N01
Description:	SCR-AMENDS 89-079

INNERCONN TECH & UNION BK (Continued) **S101542366**

Program:	UNREGS
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
Region:	2
Facility Id:	232485
Agency Name:	Union Bank of California Hazmat Dept
Place Type:	Manufacturing
Place Subtype:	Manufacturing NEC
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	3471
SIC Desc 1:	Electroplating, Plating, Polishing, Anodizing, and Coloring
SIC Code 2:	3674
SIC Desc 2:	Semiconductors and Related Devices
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UNREGS
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 438301N01
Reg Measure Id:	162249
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported

INNERCONN TECH & UNION BK (Continued) **S101542366**

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):	221848
Region:	2
Order / Resolution Number:	93-093
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	08/18/1993
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 - 2 438301N01
Description:	SCR-
Program:	UNREGS
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

Region:	2
Facility Id:	269665
Agency Name:	Union Bank of California
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	Not reported
SIC Desc 1:	Not reported
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported

INNERCONN TECH & UNION BK (Continued) **S101542366**

NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UNREGS
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 43S0241
Reg Measure Id:	170207
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/21/2013
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):	241420
Region:	2
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	13267 Letter
Effective Date:	05/20/2002
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported

INNERCONN TECH & UNION BK (Continued) **S101542366**

Status:	Active
Title:	Enforcement - 2 43S0241
Description:	Request for information regarding the property owner and a deed restriction.
Program:	UNREGS
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:

Region:	CORTESE
Facility County Code:	43
Reg By:	WBC&D
Reg Id:	2 438301NO1

CERS TANKS:

Site ID:	254852
CERS ID:	SL18212592
CERS Description:	Cleanup Program Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	MICHAEL ROCHETTE - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY STREET, SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Site ID:	338509
CERS ID:	43360066
CERS Description:	State Response

Affiliation:

Affiliation Type Desc:	Supervisor
Entity Name:	Referred - Not Assigned
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

227
NW
1/2-1
0.876 mi.
4626 ft.

CS SERVICES
1978 PLYMOUTH STREET
MOUNTAIN VIEW, CA 91351

CA Notify 65 **S100179412**
N/A

Relative:
Lower

Actual:
18 ft.

NOTIFY 65:

Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported
Issue Date:	Not reported
Incident Description:	Not reported

AG228
South
1/2-1
0.916 mi.
4838 ft.

EVELYN AVENUE PARKING LOT
SOUTHEAST CORNER OF EVELYN AVENUE AND FRANKLIN STREET
MOUNTAIN VIEW, CA 94039

Site 1 of 3 in cluster AG

CA ENVIROSTOR **S108936078**
CA VCP **N/A**

Relative:
Higher

Actual:
72 ft.

ENVIROSTOR:

Facility ID:	60000745
Status:	No Further Action
Status Date:	04/08/2009
Site Code:	201769
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	1.03
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Mark Piros
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Assembly:	24
Senate:	13
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.39539
Longitude:	-122.0803
APN:	158-15-025
Past Use:	DRY CLEANING
Potential COC:	Tetrachloroethylene (PCE
Confirmed COC:	Tetrachloroethylene (PCE
Potential Description:	OTH, SV
Alias Name:	158-15-025
Alias Type:	APN
Alias Name:	110033616380
Alias Type:	EPA (FRS #)
Alias Name:	201769
Alias Type:	Project Code (Site Code)
Alias Name:	60000745
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

EVELYN AVENUE PARKING LOT (Continued) **S108936078**

Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 12/23/2011
Comments: Memo to DTSC Cost Recovery Unit requesting closeout of site because work has been completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 05/30/2008
Comments: The Request for Oversight Agreement contained the Subsurface and Additional Subsurface Investigation Reports. They are added here.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 04/08/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 10/17/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 08/18/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 04/08/2009
Comments: DTSC approved No Further Action as long as the Site development conforms with the structural layout as evaluated in the Risk Evaluation Report and in accordance with the City's Downtown Precise Plan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consultative Service Agreement
Completed Date: 04/24/2008
Comments: Final signed Consultative Services Agreement dated April 24, 2008

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Facility ID: 60000745

EVELYN AVENUE PARKING LOT (Continued) **S108936078**

Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	1.03
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Mark Piros
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Site Code:	201769
Assembly:	24
Senate:	13
Special Programs Code:	Voluntary Cleanup Program
Status:	No Further Action
Status Date:	04/08/2009
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.39539 / -122.0803
APN:	158-15-025
Past Use:	DRY CLEANING
Potential COC:	30022
Confirmed COC:	30022
Potential Description:	OTH, SV
Alias Name:	158-15-025
Alias Type:	APN
Alias Name:	110033616380
Alias Type:	EPA (FRS #)
Alias Name:	201769
Alias Type:	Project Code (Site Code)
Alias Name:	60000745
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	12/23/2011
Comments:	Memo to DTSC Cost Recovery Unit requesting closeout of site because work has been completed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	05/30/2008
Comments:	The Request for Oversight Agreement contained the Subsurface and Additional Subsurface Investigation Reports. They are added here.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Risk Assessment Report
Completed Date:	04/08/2009
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Workplan

EVELYN AVENUE PARKING LOT (Continued) **S108936078**

Completed Date:	10/17/2008
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Risk Assessment Report
Completed Date:	08/18/2010
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	04/08/2009
Comments:	DTSC approved No Further Action as long as the Site development conforms with the structural layout as evaluated in the Risk Evaluation Report and in accordance with the City's Downtown Precise Plan.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Consultative Service Agreement
Completed Date:	04/24/2008
Comments:	Final signed Consultative Services Agreement dated April 24, 2008
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

AH229 **1710 VILLA ST., JASCO CHEMICAL** **CA ENVIROSTOR** **U001594367**
SW **1710 VILLA** **CA HIST UST** **N/A**
1/2-1 **MOUNTAIN VIEW, CA 94041** **CA ENF**
0.955 mi. **CA CIWQS**
5044 ft. **Site 1 of 3 in cluster AH** **CA CERS**

Relative: Higher

Actual: 68 ft.

ENVIROSTOR:

Facility ID:	43280119
Status:	Refer: RWQCB
Status Date:	01/10/1990
Site Code:	Not reported
Site Type:	Federal Superfund
Site Type Detailed:	State Response or NPL
Acres:	Not reported
NPL:	YES
Regulatory Agencies:	US EPA
Lead Agency:	US EPA
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Berkeley
Assembly:	24
Senate:	13
Special Program:	Not reported
Restricted Use:	NO

1710 VILLA ST., JASCO CHEMICAL (Continued) **U001594367**

Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.39892
Longitude: -122.0890
APN: 154-02-001
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: JASCO CHEMICAL CORPORATION
Alias Type: Alternate Name
Alias Name: 154-02-001
Alias Type: APN
Alias Name: CAD009103318
Alias Type: EPA Identification Number
Alias Name: 110001197259
Alias Type: EPA (FRS #)
Alias Name: T0608592706
Alias Type: GeoTracker Global ID
Alias Name: P23081
Alias Type: PCode
Alias Name: 43280119
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000008412
Facility Type: Other
Other Type: MANUFACTURER
Contact Name: JAY KANANI
Telephone: 4159686005
Owner Name: JASCO CHEMICAL CORP.
Owner Address: P. O. BOX J
Owner City,St,Zip: MOUNTAIN VIEW, CA 94042
Total Tanks: 0009

Tank Num: 001
Container Num: ONE

1710 VILLA ST., JASCO CHEMICAL (Continued) **U001594367**

Year Installed:	1976
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Groundwater Monitoring Well
Tank Num:	002
Container Num:	TWO
Year Installed:	1976
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Groundwater Monitoring Well
Tank Num:	003
Container Num:	THREE
Year Installed:	1976
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Groundwater Monitoring Well
Tank Num:	004
Container Num:	FOUR
Year Installed:	1976
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Groundwater Monitoring Well
Tank Num:	005
Container Num:	FIVE
Year Installed:	1976
Tank Capacity:	00005000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Groundwater Monitoring Well
Tank Num:	006
Container Num:	SIX
Year Installed:	1976
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Groundwater Monitoring Well
Tank Num:	007
Container Num:	SEVEN
Year Installed:	1976
Tank Capacity:	00005000
Tank Used for:	PRODUCT

1710 VILLA ST., JASCO CHEMICAL (Continued) **U001594367**

Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Groundwater Monitoring Well

Tank Num:	008
Container Num:	EIGHT
Year Installed:	1976
Tank Capacity:	00005000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Groundwater Monitoring Well

Tank Num:	009
Container Num:	NINE
Year Installed:	Not reported
Tank Capacity:	00000500
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Groundwater Monitoring Well

ENF:

Region:	2
Facility Id:	201774
Agency Name:	Jasco Chemical Corporation
Place Type:	Facility
Place Subtype:	Groundwater Cleanup Site
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	37.398002
Place Longitude:	-122.089466
SIC Code 1:	2851
SIC Desc 1:	Paints, Varnishes, Lacquers, Enamels, and Allied Products
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:	6.47999999
Threat To Water Quality:	2
Complexity:	B
Pretreatment:	N - POTW does not have EPA approved pretreatment prog.
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

1710 VILLA ST., JASCO CHEMICAL (Continued) **U001594367**

Program Category2:	NPDESWW
# Of Programs:	1
WDID:	2 438210001
Reg Measure Id:	183046
Reg Measure Type:	Enrollee
Region:	2
Order #:	R2-2004-0055
Npdes# CA#:	CAG912003
Major-Minor:	Minor
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	1000
Status:	Historical
Status Date:	09/14/2005
Effective Date:	11/13/1997
Expiration/Review Date:	07/20/1999
Termination Date:	09/14/2005
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):	239361
Region:	2
Order / Resolution Number:	R2-2001-0075
Enforcement Action Type:	Admin Civil Liability
Effective Date:	10/15/2001
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 2 438210001
Description:	Exceeded PCE limit of 5.0 ppb (at 29 ppb and 41 ppb).
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	2001-10-31
# Of Programs1:	1
Total Assessment Amount:	6000
Initial Assessed Amount:	0
Liability $ Amount:	6000
Project $ Amount:	0
Liability $ Paid:	6000
Project $ Completed:	0
Total $ Paid/Completed Amount:	6000

CIWQS:

Agency:	Jasco Chemical Corporation
Agency Address:	Po Box 1180, Mountain View, CA 94042-1180
Place/Project Type:	Groundwater Cleanup Site

1710 VILLA ST., JASCO CHEMICAL (Continued) **U001594367**

SIC/NAICS:	2851
Region:	2
Program:	NPDNONMUNIPRCS
Regulatory Measure Status:	Historical
Regulatory Measure Type:	Enrollee
Order Number:	R2-2004-0055
WDID:	2 438210001
NPDES Number:	CAG912003
Adoption Date:	Not reported
Effective Date:	11/13/1997
Termination Date:	09/14/2005
Expiration/Review Date:	07/20/1999
Design Flow:	0.0648
Major/Minor:	Minor
Complexity:	B
TTWQ:	2
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	37.398002
Longitude:	-122.089466

CERS TANKS:

Site ID:	348264
CERS ID:	201774
CERS Description:	NPDES Wastewater and Stormwater

Violations:

Site ID:	348264
Site Name:	1710 Villa St., JASCO Chemical
Violation Date:	04-23-2001
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	An effluent sample contained 41 ppb PCE exceeded 5.0 ppb limit in Order No. 99-051.
Violation Division:	Water Boards
Violation Program:	NPDNONMUNI
Violation Source:	CIWQS

Site ID:	348264
Site Name:	1710 Villa St., JASCO Chemical
Violation Date:	04-23-2001
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	An effluent sample contained 29 ppb PCE exceeded 5.0 ppb limit in Order No. 99-051.
Violation Division:	Water Boards
Violation Program:	NPDNONMUNI
Violation Source:	CIWQS

Enforcement Action:

Site ID:	348264
Site Name:	1710 Villa St., JASCO Chemical
Site Address:	1710 VILLA
Site City:	MOUNTAIN VIEW
Site Zip:	94041
Enf Action Date:	10-15-2001
Enf Action Type:	Administrative Enforcement with Penality

1710 VILLA ST., JASCO CHEMICAL (Continued) **U001594367**

Enf Action Description: Administrative Enforcement with Civil Liability (Penality)
Enf Action Notes: Not reported
Enf Action Division: Water Boards
Enf Action Program: UNSPEC
Enf Action Source: CIWQS

AH230 **JASCO CHEMICAL CO** **CA HIST Cal-Sites** **1000175630**
SW **1710 VILLA STREET** **N/A**
1/2-1 **MOUNTAIN VIEW, CA 94041**
0.955 mi.
5044 ft. **Site 2 of 3 in cluster AH**

Relative:
Higher

Actual:
68 ft.

Calsite:
Region: BERKELEY
Facility ID: 43280119
Facility Type: NPRP
Type: NPL SITE, RP-FUNDED
Branch: NC
Branch Name: NORTH COAST
File Name: Not reported
State Senate District: 01101990
Status: DOES NOT REQUIRE DTSC ACTION. REFERRED TO REGIONAL WATER QUALITY CONTROL BOARD (RWQCB) LEAD
Status Name: PROPERTY/SITE REFERRED TO RWQCB
Lead Agency: ENVIRONMENTAL PROTECTION AGENCY
NPL: Listed
SIC Code: 28
SIC Name: MANU - CHEMICALS & ALLIED PRODUCTS
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: Not reported
Supervisor Responsible for Site: Not reported
Region Water Control Board: Not reported
Region Water Control Board Name: Not reported
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: 22
State Senate District Code: 13
Facility ID: Not reported
Activity: Not reported
Activity Name: Not reported
AWP Code: Not reported
Proposed Budget: Not reported
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: Not reported
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: Not reported
Definition of Status: Not reported
Liquids Removed (Gals): Not reported

JASCO CHEMICAL CO (Continued) **1000175630**

Liquids Treated (Gals):	Not reported
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:	Not reported
For Industrial Reuse:	Not reported
For Residential Reuse:	Not reported
Unknown Type:	Not reported
Alternate Address:	1710 VILLA STREET
Alternate City,St,Zip:	MOUNTAIN VIEW, CA 95246
Alternate Address:	1710 VILLA STREET
Alternate City,St,Zip:	MOUNTAIN VIEW, CA 94041
Background Info:	Not reported
Comments Date:	07251991
Comments:	Groundwater is contaminated with VOCs, phenols, and diesel
Comments Date:	07251991
Comments:	fuel. Soil contains VOCs and diesel fuel. Surface water is
Comments Date:	07251991
Comments:	contaminated with VOCs and PCP. People may face a health
Comments Date:	07251991
Comments:	threat if they inhale contaminated vapors or drink/touch
Comments Date:	07251991
Comments:	contaminated groundwater.
ID Name:	BEP DATABASE PCODE
ID Value:	P23081
ID Name:	EPA IDENTIFICATION NUMBER
ID Value:	CAD009103318
Alternate Name:	JASCO CHEMICAL CORPORATION
Alternate Name:	JASCO CHEMICAL CO
Alternate Name:	Not reported
Special Programs Code:	Not reported
Special Programs Name:	Not reported

AH231 **JASCO CHEMICAL CORPORATION** **CA BOND EXP. PLAN** **S105960435**
SW **1710 VILLA STREET** **CA EMI** **N/A**
1/2-1 **MOUNTAIN VIEW, CA 95246**
0.955 mi.
5044 ft. **Site 3 of 3 in cluster AH**

Relative: **Higher**

Actual: **68 ft.**

CA BOND EXP. PLAN:

Reponsible Party:	NPL SITE CLEANUP WORKPLAN
Project Revenue Source Company:	Not reported
Project Revenue Source Addr:	Not reported
Project Revenue Source City,St,Zip:	Not reported
Project Revenue Source Desc:	This site has been proposed for listing on the NPL. It is expected that the RP will remediate this site with oversight by EPA. DHS will perform a limited role of oversight and monitoring of the remedial activities at this site. DHS has budgeted $50,000 for oversight and monitoring costs. DHS will recover 100 percent of direct costs plus staff costs and overhead related to the project.
Site Description:	The Jasco Chemical Corporation has formulated chemical products at this 2.05-acre site in Mountain View since 1976. The site is bordered on the northeast by the Central Expressway and Southern Pacific Railroad, and on the remaining sides by residential units. The facility handles and stores numerous chemicals onsite in underground tanks and 55 gallon drums.
Hazardous Waste Desc:	The contaminants detected in the soil and ground water onsite include trichloroethane (TCA), dichloroethane (DCA), dichloroethylene (DCE), phenol and

JASCO CHEMICAL CORPORATION (Continued) **S105960435**

methylene chloride (MCL).

Threat To Public Health & Env: Within a 3-mile radius of the site there are approximately 199,000 people who depend on ground water as a source of drinking water. Contaminants have migrated at least 10 feet beyond the property boundary, as evidenced by the detection of DCA and TCA in an offsite well. Mountain View wells #17 and #10 are located within 1,500 feet and 3,100 feet of the site, respectively.

Site Activity Status: Investigations at the site were initiated in 1984. Both soil and ground water contamination has been detected onsite. Discharges of surface runoff from the rear of the facility appear to be a major source of contaminants. Up to 11,000 parts per million (ppm) paint thinner was detected in soil samples taken near a runoff outfall. Jasco Chemical has been extracting contaminated ground water from one well since February, 1987.

EMI:

Year:	1990
County Code:	43
Air Basin:	SF
Facility ID:	5477
Air District Name:	BA
SIC Code:	2869
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1993
County Code:	43
Air Basin:	SF
Facility ID:	5477
Air District Name:	BA
SIC Code:	2869
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

AG232 **FREMONT LAUNDRY** **CA ENVIROSTOR** **S110769675**
South **990 VILLA STREET** **CA VCP** **N/A**
1/2-1 **MOUNTAIN VIEW, CA 94041**
0.955 mi.
5045 ft. **Site 2 of 3 in cluster AG**

Relative:
Higher

Actual:
73 ft.

ENVIROSTOR:

Facility ID:	60001426
Status:	Active
Status Date:	12/20/2018
Site Code:	202137
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	0.3
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Jayantha Randeni
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Assembly:	24
Senate:	13
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	EPA Grant
Latitude:	37.39473
Longitude:	-122.0809
APN:	15815024
Past Use:	DRY CLEANING, LAUNDRY SERVICES
Potential COC:	Tetrachloroethylene (PCE
Confirmed COC:	30022-NO
Potential Description:	OTH, SOIL
Alias Name:	15815024
Alias Type:	APN
Alias Name:	201898
Alias Type:	Project Code (Site Code)
Alias Name:	202137
Alias Type:	Project Code (Site Code)
Alias Name:	60001426
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	PA/SI Site Screening
Completed Date:	06/30/2011
Comments:	The Site Screening concludes the site is a potential source of PCE impacts to groundwater and a Preliminary Endangerment Assessment should be performed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	08/27/2014
Comments:	Letter to owner informing of contamination at the site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence

FREMONT LAUNDRY (Continued) **S110769675**

Completed Date: 08/29/2014
Comments: Owner email to DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: PA/SI Reassessment
Completed Date: 01/26/2015
Comments: Reassessment conducted by DTSC on EPA's behalf to determine if the site should be considered for the National Priorities List. DTSC concluded that DTSC is the primary cleanup agency but EPA will periodically review the progress towards cleanup as DTSC and the property owner are negotiating an agreement to oversee environmental investigation and cleanup.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 09/05/2014
Comments: DTSC response to Owner.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 09/19/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 09/11/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 05/14/1991
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/11/2015
Comments: The Results of Sub-Slab Soil Vapor Assessment report presents the findings of a sub-slab soil vapor assessment that was performed by the Site owner to determine whether former operations by Austin's Fremont Laundry impacted the Site. Sub-slab sampling of soil vapor was performed at six locations in the building that occupies the Site. Elevated concentrations of tetrachloroethene (PCE) were detected in the soil vapor samples. The highest PCE concentrations were detected on the eastern side of the building and were about an order of magnitude lower on the western side of the building.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Application
Completed Date: 04/14/2017
Comments: Not reported

FREMONT LAUNDRY (Continued) **S110769675**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Application
Completed Date: 12/15/2017
Comments: Request for Agency Oversight Application submitted by Four Corners Properties Investment Company, LLC to DTSC. The party decided not to proceed with the project.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Application
Completed Date: 01/11/2019
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: Community Profile
Schedule Due Date: 04/12/2019
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Phase 1
Schedule Due Date: 04/04/2019
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: California Land Reuse and Revitalization Agreement
Schedule Due Date: 04/30/2019
Schedule Revised Date: Not reported

VCP:
Facility ID: 60001426
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 0.3
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Jayantha Randeni
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Site Code: 202137
Assembly: 24
Senate: 13
Special Programs Code: Not reported
Status: Active
Status Date: 12/20/2018
Restricted Use: NO
Funding: EPA Grant
Lat/Long: 37.39473 / -122.0809
APN: 15815024

FREMONT LAUNDRY (Continued) **S110769675**

Past Use: DRY CLEANING, LAUNDRY SERVICES
Potential COC: 30022
Confirmed COC: 30022-NO
Potential Description: OTH, SOIL
Alias Name: 15815024
Alias Type: APN
Alias Name: 201898
Alias Type: Project Code (Site Code)
Alias Name: 202137
Alias Type: Project Code (Site Code)
Alias Name: 60001426
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: PA/SI Site Screening
Completed Date: 06/30/2011
Comments: The Site Screening concludes the site is a potential source of PCE impacts to groundwater and a Preliminary Endangerment Assessment should be performed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/27/2014
Comments: Letter to owner informing of contamination at the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/29/2014
Comments: Owner email to DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: PA/SI Reassessment
Completed Date: 01/26/2015
Comments: Reassessment conducted by DTSC on EPA’s behalf to determine if the site should be considered for the National Priorities List. DTSC concluded that DTSC is the primary cleanup agency but EPA will periodically review the progress towards cleanup as DTSC and the property owner are negotiating an agreement to oversee environmental investigation and cleanup.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 09/05/2014
Comments: DTSC response to Owner.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 09/19/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE

FREMONT LAUNDRY (Continued) **S110769675**

Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 09/11/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 05/14/1991
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/11/2015
Comments: The Results of Sub-Slab Soil Vapor Assessment report presents the findings of a sub-slab soil vapor assessment that was performed by the Site owner to determine whether former operations by Austin's Fremont Laundry impacted the Site. Sub-slab sampling of soil vapor was performed at six locations in the building that occupies the Site. Elevated concentrations of tetrachloroethene (PCE) were detected in the soil vapor samples. The highest PCE concentrations were detected on the eastern side of the building and were about an order of magnitude lower on the western side of the building.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Application
Completed Date: 04/14/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Application
Completed Date: 12/15/2017
Comments: Request for Agency Oversight Application submitted by Four Corners Properties Investment Company, LLC to DTSC. The party decided not to proceed with the project.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Application
Completed Date: 01/11/2019
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: Community Profile
Schedule Due Date: 04/12/2019
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Phase 1

FREMONT LAUNDRY (Continued) **S110769675**

Schedule Due Date: 04/04/2019
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: California Land Reuse and Revitalization Agreement
Schedule Due Date: 04/30/2019
Schedule Revised Date: Not reported

AG233 **TIED HOUSE BREWING SITE** **CA ENVIROSTOR** **S117038684**
South **954 VILLA STREET** **CA VCP** **N/A**
1/2-1 **MOUNTAIN VIEW, CA 94041**
0.960 mi.
5068 ft. **Site 3 of 3 in cluster AG**

Relative:
Higher

Actual:
73 ft.

ENVIROSTOR:
Facility ID: 60002038
Status: Active
Status Date: 01/23/2017
Site Code: 202011
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 0.27
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Jayantha Randeni
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Assembly: 24
Senate: 13
Special Program: Voluntary Cleanup Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.39472
Longitude: -122.0806
APN: NONE SPECIFIED
Past Use: DRY CLEANING
Potential COC: Tetrachloroethylene (PCE Trichloroethylene (TCE
Confirmed COC: Tetrachloroethylene (PCE Trichloroethylene (TCE
Potential Description: IA, OTH, SV
Alias Name: 202011
Alias Type: Project Code (Site Code)
Alias Name: 60002038
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Application
Completed Date: 07/25/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 07/25/2014
Comments: Soil vapor and sub-slab PCE concentrations exceed screening levels.

TIED HOUSE BREWING SITE (Continued) **S117038684**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Application
Completed Date:	02/07/2017
Comments:	Request for Agency Oversight Application received by DTSC from The Minkoff Group.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Workplan
Completed Date:	04/21/2017
Comments:	The Work Plan proposes soil, groundwater and soil vapor sampling from eight locations.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	04/28/2017
Comments:	Field work completed according to the DTSC-approved Site Investigation Work Plan.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	03/23/2018
Comments:	The purpose of the Phase II site characterization was to assess halogenated volatile organic compounds previously detected in soil, groundwater, and soil vapor in support of the proposed redevelopment. Sampling results indicated that PCE is the primary constituent of concern detected in soil, groundwater, and soil vapor detected at concentrations exceeding human health risk-based screening levels for a commercial/industrial scenario.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	09/10/2015
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	03/28/2017
Comments:	The Minkoff Group entered into a Voluntary Cleanup Agreement with DTSC to oversee site characterization activities.
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

TIED HOUSE BREWING SITE (Continued) **S117038684**

VCP:

Facility ID:	60002038
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	0.27
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Jayantha Randeni
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Site Code:	202011
Assembly:	24
Senate:	13
Special Programs Code:	Voluntary Cleanup Program
Status:	Active
Status Date:	01/23/2017
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.39472 / -122.0806
APN:	NONE SPECIFIED
Past Use:	DRY CLEANING
Potential COC:	30022, 30027
Confirmed COC:	30022,30027
Potential Description:	IA, OTH, SV
Alias Name:	202011
Alias Type:	Project Code (Site Code)
Alias Name:	60002038
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Application
Completed Date:	07/25/2014
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	07/25/2014
Comments:	Soil vapor and sub-slab PCE concentrations exceed screening levels.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Application
Completed Date:	02/07/2017
Comments:	Request for Agency Oversight Application received by DTSC from The Minkoff Group.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Workplan
Completed Date:	04/21/2017
Comments:	The Work Plan proposes soil, groundwater and soil vapor sampling from

TIED HOUSE BREWING SITE (Continued) **S117038684**

eight locations.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	04/28/2017
Comments:	Field work completed according to the DTSC-approved Site Investigation Work Plan.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	03/23/2018
Comments:	The purpose of the Phase II site characterization was to assess halogenated volatile organic compounds previously detected in soil, groundwater, and soil vapor in support of the proposed redevelopment. Sampling results indicated that PCE is the primary constituent of concern detected in soil, groundwater, and soil vapor detected at concentrations exceeding human health risk-based screening levels for a commercial/industrial scenario.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	09/10/2015
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	03/28/2017
Comments:	The Minkoff Group entered into a Voluntary Cleanup Agreement with DTSC to oversee site characterization activities.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

Count: 7 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
MOFFETT FIELD	S107996346	MOFFETT FIELD NAS-TANK 28	BG 563 N OF MACON RD		CA LUST
MOFFETT FIELD	S107996358	MOFFETT FIELD NAS-TANK 69	BDG 47 MACON RD		CA LUST
MOFFETT FIELD	S123100639	GOOGLE LLC - 934	934 MACON AVE	94035	CA CERS HAZ WASTE, CA CERS
MOFFETT FIELD	S107996345	MOFFETT FIELD NAS-TANK 26	N OF MACON RD		CA LUST
MOUNTAIN VIEW	S107997074	U.S. NAVY HOUSING PROJECT	COR OF MOFFETT & MIDDLEFIELD		CA LUST
MOUNTAIN VIEW	S101482380	SOUTHERN PACIFIC RAILROAD	MOUNTAIN VIEW RAIL STATION	94035	CA ENVIROSTOR
MOUNTAIN VIEW	S105693288	GOODSELL VOCKE INC	1401 STIERLIN RD	94043	CA CPS-SLIC

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 04/15/2019
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: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 04/15/2019
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: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/04/2019
Next Scheduled EDR Contact: 04/15/2019
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: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 04/29/2019
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: 12/13/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
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: 10/17/2018
Date Data Arrived at EDR: 10/25/2018
Date Made Active in Reports: 12/07/2018
Number of Days to Update: 43

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/07/2019
Next Scheduled EDR Contact: 05/27/2019
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: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 06/10/2019
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: 02/04/2019
Date Data Arrived at EDR: 02/08/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 28

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 02/08/2019
Next Scheduled EDR Contact: 04/08/2019
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: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
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: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
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: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 21

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/12/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

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 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 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 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 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 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

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: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 12/11/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
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: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
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: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
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: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 05/06/2019
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: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
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: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
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: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/08/2019
Next Scheduled EDR Contact: 04/22/2019
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: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/16/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Varies

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 12/11/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Semi-Annually

MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Quarterly

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: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
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: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 05/06/2019
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: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
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: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
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: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
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: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
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: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
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: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
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: 12/19/2018
Next Scheduled EDR Contact: 04/08/2019
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: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

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: 12/20/2018
Date Data Arrived at EDR: 12/21/2018
Date Made Active in Reports: 02/28/2019
Number of Days to Update: 69

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/08/2019
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: 12/17/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 24

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/18/2018
Next Scheduled EDR Contact: 04/01/2019
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: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 09/28/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 34

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 02/12/2019
Next Scheduled EDR Contact: 05/27/2019
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: 01/29/2019
Next Scheduled EDR Contact: 05/13/2019
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: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
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: 02/01/2019
Next Scheduled EDR Contact: 05/13/2019
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: 09/21/2018
Date Data Arrived at EDR: 09/21/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 49

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
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: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
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: 12/31/2017
Date Data Arrived at EDR: 06/12/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 55

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 04/22/2019
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: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 01/24/2019
Next Scheduled EDR Contact: 05/06/2019
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: 09/21/2018
Date Data Arrived at EDR: 09/21/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 49

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 12/04/2018
Date Data Arrived at EDR: 12/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing
Aboveground storage tank sites

Date of Government Version: 09/11/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/11/2018
Number of Days to Update: 29

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/24/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 11/29/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
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: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 05/06/2019
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: 12/03/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/26/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 73

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 02/08/2019
Next Scheduled EDR Contact: 04/08/2019
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: 10/24/2018
Date Data Arrived at EDR: 01/24/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 40

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 01/24/2019
Next Scheduled EDR Contact: 05/06/2019
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: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
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: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/22/2019
Next Scheduled EDR Contact: 06/03/2019
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: 01/11/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/22/2019
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: 02/15/2019
Next Scheduled EDR Contact: 05/27/2019
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: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32
Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 04/08/2019
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: 02/08/2019
Next Scheduled EDR Contact: 05/20/2019
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: 02/08/2019
Next Scheduled EDR Contact: 05/20/2019
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: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198
Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/01/2019
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: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/20/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
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: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 06/17/2019
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: 10/26/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/22/2019
Next Scheduled EDR Contact: 05/06/2019
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: 08/13/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 36
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 05/20/2019
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: 09/14/2018
Date Data Arrived at EDR: 10/11/2018
Date Made Active in Reports: 12/07/2018
Number of Days to Update: 57
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/22/2019
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: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
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: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 01/22/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
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: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/02/2018
Date Data Arrived at EDR: 10/03/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 37
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/03/2019
Next Scheduled EDR Contact: 04/15/2019
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: 10/01/2018
Date Data Arrived at EDR: 10/30/2018
Date Made Active in Reports: 01/18/2019
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
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: 09/30/2018
Date Data Arrived at EDR: 10/12/2018
Date Made Active in Reports: 12/07/2018
Number of Days to Update: 56

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
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: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
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: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
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: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
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: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/22/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/01/2018
Date Data Arrived at EDR: 08/29/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 37

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/01/2019
Next Scheduled EDR Contact: 06/10/2019
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: 03/01/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/10/2018
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 Interior
Telephone: 202-208-2609
Last EDR Contact: 03/11/2019
Next Scheduled EDR Contact: 06/24/2019
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: 11/15/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 06/19/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 87

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/02/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 9

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 03/01/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/22/2018
Date Data Arrived at EDR: 08/22/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 44
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/03/2019
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: 12/20/2018
Date Data Arrived at EDR: 12/21/2018
Date Made Active in Reports: 02/28/2019
Number of Days to Update: 69
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/08/2019
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: 08/28/2018
Date Data Arrived at EDR: 08/30/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 63
Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 02/26/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Varies

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 09/11/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 7
Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
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: 11/13/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 42

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
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: 10/04/2018
Date Data Arrived at EDR: 10/05/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 27

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 02/07/2019
Next Scheduled EDR Contact: 06/10/2019
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: 12/13/2018
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 47

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
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: 12/31/2017
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 47

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/01/2019
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: 11/01/2018
Date Data Arrived at EDR: 11/02/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 41

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 01/10/2019
Date Data Arrived at EDR: 01/23/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 41

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
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: 02/15/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 14

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 02/11/2019
Next Scheduled EDR Contact: 05/27/2019
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: 12/31/2017
Date Data Arrived at EDR: 10/10/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 37

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 02/20/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 13

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 02/20/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 02/20/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 13

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/20/2019
Next Scheduled EDR Contact: 06/03/2019
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: 01/07/2019
Date Data Arrived at EDR: 01/08/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 56

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 01/08/2019
Next Scheduled EDR Contact: 04/22/2019
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: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
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: 11/09/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 23
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/12/2019
Next Scheduled EDR Contact: 05/27/2019
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: 12/03/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/19/2018
Date Data Arrived at EDR: 09/20/2018
Date Made Active in Reports: 10/19/2018
Number of Days to Update: 29
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 04/27/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 34
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
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: 05/08/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 09/13/2018
Number of Days to Update: 64
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/22/2019
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: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Quarterly

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
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: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/18/2019
Number of Days to Update: 37
Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
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: 12/03/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 38
Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
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: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38
Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/24/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 12/19/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
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: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 01/07/2019
Date Data Arrived at EDR: 01/08/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 59

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 01/07/2019
Date Data Arrived at EDR: 01/08/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 58

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
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: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 01/24/2019
Date Data Arrived at EDR: 01/25/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 39

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 05/23/2018
Date Data Arrived at EDR: 05/24/2018
Date Made Active in Reports: 07/13/2018
Number of Days to Update: 50

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 05/20/2019
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: 02/14/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 17

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 01/16/2019
Date Data Arrived at EDR: 02/05/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 28

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 28

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
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: 10/16/2018
Date Data Arrived at EDR: 10/18/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 27

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 12/26/2018
Next Scheduled EDR Contact: 04/15/2019
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: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 11/19/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 01/18/2019
Date Data Arrived at EDR: 01/23/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 41

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
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: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 02/07/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 29

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
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: 02/14/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 14

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 02/08/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/12/2019
Number of Days to Update: 28

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/17/2019
Date Data Arrived at EDR: 01/18/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 46

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 12/19/2018
Date Data Arrived at EDR: 01/10/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 56

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/14/2019
Date Data Arrived at EDR: 01/15/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 51

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/15/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 01/15/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 51

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 01/15/2019
Next Scheduled EDR Contact: 04/29/2019
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: 01/30/2019
Date Data Arrived at EDR: 02/01/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 34

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 02/01/2019
Next Scheduled EDR Contact: 04/29/2019
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: 01/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Semi-Annually

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: 03/09/2017
Date Data Arrived at EDR: 03/10/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 54

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Annually

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 10/02/2018
Date Data Arrived at EDR: 10/05/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 28

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
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: 02/20/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 13

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 06/03/2019
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: 01/14/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/29/2018
Date Data Arrived at EDR: 08/31/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 19

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 12/07/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/24/2019
Number of Days to Update: 44

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 02/05/2019
Date Data Arrived at EDR: 02/07/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 26

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 12/27/2018
Next Scheduled EDR Contact: 04/15/2019
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: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
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: 02/21/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 14

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 01/25/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 01/02/2019
Date Data Arrived at EDR: 02/07/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 26
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 01/02/2019
Date Data Arrived at EDR: 02/08/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 26
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 01/02/2019
Date Data Arrived at EDR: 02/05/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 31
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/05/2019
Next Scheduled EDR Contact: 05/20/2019
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: 11/29/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 38
Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 01/14/2019
Date Data Arrived at EDR: 01/18/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 46
Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
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: 01/29/2019
Date Data Arrived at EDR: 01/31/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 34
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/17/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/29/2019
Date Data Arrived at EDR: 01/31/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 36

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/17/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/07/2018
Date Data Arrived at EDR: 01/04/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 60

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 01/04/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/07/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 67

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 11/15/2018
Date Data Arrived at EDR: 11/16/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 27

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 05/20/2019
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: 11/28/2018
Date Data Arrived at EDR: 11/30/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 42

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 02/19/2019
Next Scheduled EDR Contact: 05/20/2019
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: 12/03/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
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: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 03/06/2019
Next Scheduled EDR Contact: 05/06/2019
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: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

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: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

UST SAN FRANCISCO: Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/05/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 38

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/13/2019
Date Data Arrived at EDR: 02/15/2019
Date Made Active in Reports: 03/14/2019
Number of Days to Update: 27

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
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: 12/03/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
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: 12/13/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/23/2019
Number of Days to Update: 36

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/11/2019
Next Scheduled EDR Contact: 06/24/2019
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: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 02/13/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 15

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
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: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Annually

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 01/30/2019
Date Data Arrived at EDR: 02/01/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 34

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
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: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
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: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
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: 11/29/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 38

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 11/29/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 10

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 12/21/2018
Date Data Arrived at EDR: 12/27/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 19

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 12/19/2018
Next Scheduled EDR Contact: 04/08/2019
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: 01/08/2019
Date Data Arrived at EDR: 01/10/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 55

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 12/13/2018
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 01/07/2019
Date Data Arrived at EDR: 01/08/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 59

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 28

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 01/18/2019
Date Data Arrived at EDR: 01/23/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 42

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 12/27/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 19

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
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: 02/27/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 01/24/2019
Date Made Active in Reports: 02/28/2019
Number of Days to Update: 35

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 01/22/2019
Next Scheduled EDR Contact: 05/06/2019
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: 12/26/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Annually

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: 02/07/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Quarterly

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 01/24/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 42
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 01/22/2019
Next Scheduled EDR Contact: 05/06/2019
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: 11/26/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/16/2019
Number of Days to Update: 35
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
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: 12/26/2018
Date Data Arrived at EDR: 01/03/2019
Date Made Active in Reports: 01/16/2019
Number of Days to Update: 13
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 12/26/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 02/08/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 22
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/04/2019
Number of Days to Update: 20

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/12/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 08/01/2018
Number of Days to Update: 19

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
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: 01/30/2019
Date Made Active in Reports: 02/14/2019
Number of Days to Update: 15

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/30/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/27/2018
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/19/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/11/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
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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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

1001-1091 STERLIN RD & 1130-1170 TERRA BELLA AVE
1001-1091 N SHORELINE BLVD & 1062 LINDA VISTA AVE
MOUNTAIN VIEW, CA 94043

TARGET PROPERTY COORDINATES

Latitude (North):	37.409251 - 37° 24' 33.30''
Longitude (West):	122.077312 - 122° 4' 38.32''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	581658.0
UTM Y (Meters):	4140468.8
Elevation:	37 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5641106 MOUNTAIN VIEW, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

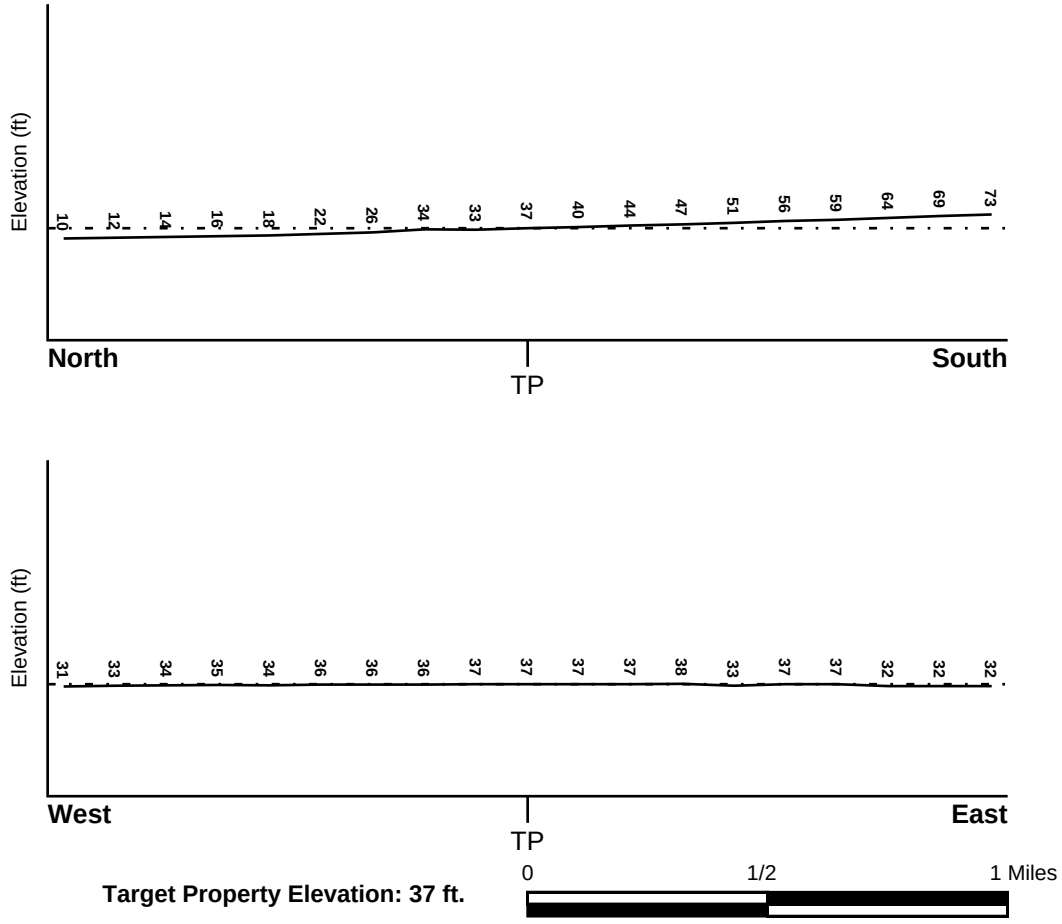
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General North

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 37 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06085C0037H	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06085C0036H	FEMA FIRM Flood data
06085C0045H	FEMA FIRM Flood data
06085C0038H	FEMA FIRM Flood data
06085C0039H	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
MOUNTAIN VIEW	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
Location Relative to TP:	0 - 1/8 Mile ESE
Site Name:	JASCO CHEMICAL CO
Site EPA ID Number:	CAD981677107
Groundwater Flow Direction:	North-Northeast
Measured Depth to Water:	13.5 to 15 feet, 20 to 23.5 feet, and 26 to 29 feet in three discrete perched zones at the site.
Hydraulic Connection:	The upper perched aquifers and lower aquifer at the site are separated by a dense blue clay aquitard, although aquifer interconnections exist in the site vicinity.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information is inferred in the CERCLIS investigation report(s)

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site--specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	BOTELLA
Soil Surface Texture:	clay loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	MODERATE
Depth to Bedrock Min:	> 60 inches
Depth to Bedrock Max:	> 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	9 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 7.30 Min: 5.60
2	9 inches	41 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 7.80 Min: 5.60
3	41 inches	76 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 0.60 Min: 0.20	Max: 7.80 Min: 5.60

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: No Other Soil Types

Surficial Soil Types: No Other Soil Types

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: No Other Soil Types

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	CADW60000004040	1/2 - 1 Mile WSW
A2	6882	1/2 - 1 Mile SE
A3	6885	1/2 - 1 Mile SE
A4	6886	1/2 - 1 Mile SE
B5	CADW60000004042	1/2 - 1 Mile SE
B6	CADW60000004043	1/2 - 1 Mile SE
B7	CADW60000004044	1/2 - 1 Mile SE

PHYSICAL SETTING SOURCE MAP - 5591584.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- 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:	1001-1091 Sterlin Rd & 1130-1170 Terra Bella Ave	CLIENT:	EKI Environment & Water, Inc.
ADDRESS:	1001-1091 N Shoreline Blvd & 1062 Linda Vista Ave Mountain View CA 94043	CONTACT:	James Yoon
LAT/LONG:	37.409251 / 122.077312	INQUIRY #:	5591584.2s
		DATE:	March 15, 2019 2:20 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database | EDR ID Number

1
WSW
1/2 - 1 Mile
Higher

CA WELLS **CADW60000004040**

Objectid:	4040	Latitude:	37.40688
Longitude:	-122.08863	Site code:	374069N1220886W001
State well numbe:	06S02W16L021M	Local well name:	'06S02W16L021'
Well use id:	1	Well use descrip:	Observation
County id:	43	County name:	Santa Clara
Basin code:	'2-9.02'	Basin desc:	Santa Clara
Dwr region id:	80236	Dwr region:	North Central Region Office
Site id:	CADW60000004040		

A2
SE
1/2 - 1 Mile
Higher

CA WELLS **6882**

Seq:	6882	Prim sta c:	06S/02W-22G01 M
Frds no:	4310007010	County:	43
District:	05	User id:	HEN
System no:	4310007	Water type:	G
Source nam:	WELL 18 EASY GLADY	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	372400.0	Longitude:	1220400.0
Precision:	8	Status:	AU
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:	4310007	System nam:	City of Mountain View
Hqname:	Not Reported	Address:	231 NORTH WHISMAN ROAD
City:	MOUNTAIN VIEW	State:	CA
Zip:	94043	Zip ext:	Not Reported
Pop serv:	69000	Connection:	15069
Area serve:	MOUNTAIN VIEW		

A3
SE
1/2 - 1 Mile
Higher

CA WELLS **6885**

Seq:	6885	Prim sta c:	06S/02W-22M01 M
Frds no:	4310007007	County:	43
District:	05	User id:	HEN
System no:	4310007	Water type:	G
Source nam:	WELL 11 ADOBE - ABANDONED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	372400.0	Longitude:	1220400.0
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:	4310007	System nam:	City of Mountain View
Hqname:	Not Reported	Address:	231 NORTH WHISMAN ROAD
City:	MOUNTAIN VIEW	State:	CA

Zip:	94043	Zip ext:	Not Reported
Pop serv:	69000	Connection:	15069
Area serve:	MOUNTAIN VIEW		

A4
SE
1/2 - 1 Mile
Higher

CA WELLS 6886

Seq:	6886	Prim sta c:	06S/02W-22M02 M
Frds no:	4310007008	County:	43
District:	05	User id:	HEN
System no:	4310007	Water type:	G
Source nam:	WELL 12 ADOBE - ABANDONED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	372400.0	Longitude:	1220400.0
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:	4310007	System nam:	City of Mountain View
Hqname:	Not Reported	Address:	231 NORTH WHISMAN ROAD
City:	MOUNTAIN VIEW	State:	CA
Zip:	94043	Zip ext:	Not Reported
Pop serv:	69000	Connection:	15069
Area serve:	MOUNTAIN VIEW		

B5
SE
1/2 - 1 Mile
Higher

CA WELLS CADW60000004042

Objectid:	4042	Latitude:	37.3992
Longitude:	-122.06452	Site code:	373992N1220645W001
State well numbe:	06S02W22G004M	Local well name:	'06S02W22G004'
Well use id:	1	Well use descrip:	Observation
County id:	43	County name:	Santa Clara
Basin code:	'2-9.02'	Basin desc:	Santa Clara
Dwr region id:	80236	Dwr region:	North Central Region Office
Site id:	CADW60000004042		

B6
SE
1/2 - 1 Mile
Higher

CA WELLS CADW60000004043

Objectid:	4043	Latitude:	37.39918
Longitude:	-122.06453	Site code:	373992N1220645W002
State well numbe:	06S02W22G005M	Local well name:	'06S02W22G005'
Well use id:	1	Well use descrip:	Observation
County id:	43	County name:	Santa Clara
Basin code:	'2-9.02'	Basin desc:	Santa Clara
Dwr region id:	80236	Dwr region:	North Central Region Office
Site id:	CADW60000004043		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database	EDR ID Number
CA WELLS	**CADW60000004044**

B7
SE
1/2 - 1 Mile
Higher

Objectid:	4044	Latitude:	37.39917
Longitude:	-122.06454	Site code:	373992N1220645W003
State well numbe:	06S02W22G006M	Local well name:	'06S02W22G006'
Well use id:	1	Well use descrip:	Observation
County id:	43	County name:	Santa Clara
Basin code:	'2-9.02'	Basin desc:	Santa Clara
Dwr region id:	80236	Dwr region:	North Central Region Office
Site id:	CADW60000004044		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
94043	22	1

Federal EPA Radon Zone for SANTA CLARA County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 94043

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	2.200 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

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 F

RESUMES FOR PREPARERS OF PHASE I ESA REPORT

Michelle Kriegman King, PhD

President
Environmental Engineer/Chemist

Education

- Stanford University, Ph.D. Environmental Engineering, 1993
- Stanford University, M.S. Environmental Engineering, 1987
- Princeton University, B.S.E. Geological Engineering, 1985

Registrations/Certifications

- Forty-hour HAZWOPER Training Course
- Eight-hour Health and Safety Training Course for Supervisors

Summary of Experience

Dr. King has over thirty years of experience and a background in environmental chemistry, geological engineering, and environmental engineering. She specializes in working with clients and regulatory agencies to facilitate risk-based remedial actions for redevelopment of contaminated properties and former military bases, transfer of environmental cleanup responsibility at military bases, overseeing and performing human health risk assessments, performance of site assessments including vapor intrusion assessments, and evaluation of the fate and mobility of organic and inorganic chemicals in soil and aqueous environments. She also directs investigations of the vadose zone and aquifers containing volatile organic compounds (VOCs) and metals, evaluations of groundwater treatment systems, and assessments of the potential for chemical transformations. Dr. King plays a key role in evaluating chemical and physical data from the field and identifying the processes that potentially control the fate of the chemicals of concern in environmental systems.

Project Experience

- Dr. King is currently working on several Brownfield redevelopment projects in California to direct environmental due diligence followed by oversight of the site characterization, identification of chemicals of concern, estimation of human health risks, and development of proposed remedial actions or risk management measures that are appropriate and consistent with the planned future use of the specific sites. As part of these projects, Dr. King presents the technical arguments to the responsible party and the regulatory agencies to support an approach that will address identified environmental concerns in a cost-effective manner and within the timing and phasing of planned redevelopment. Many of these projects have required the performance of vapor intrusion assessments and evaluation of mitigation options.
- Dr. King is currently EKI's program manager for environmental activities associated with the reuse of approximately 1,000 acres at Moffett Federal Airfield. Dr. King oversaw the preparation of the Environmental Issues Management Plan (EIMP), which provides a framework to manage environmental concerns during design and construction for the reuse of the property. Dr. King serves as a liaison to communicate environmental issues among the key stakeholders, including the client, the regulatory agencies, NASA, the design team, and the general contractor. Dr. King also oversees EKI's technical approach and deliverables on the project. Primary environmental concerns include residual petroleum hydrocarbons and VOCs in soil, soil gas, and groundwater as well as PCBs and lead on the Hangar 1 structure. As part of this project, Dr. King has overseen the vapor intrusion assessment ad design of the vapor intrusion mitigation system as part of the retrofit and restoration of a large hangar.
- At a Superfund Site in Mountain View, California, Dr. King represents a group of property owners that own approximately 85 percent of the commercial property within the footprint of the Superfund Site. Her role is to provide technical advocacy with regard to issues such as vapor intrusion assessment, monitoring, and mitigation and evaluation of alternate groundwater remedial actions. Dr. King, in

conjunction with the owners and outside counsel, were successful at having United States Environmental Protection Agency (U.S. EPA) Region 9 modify the vapor intrusion remedy to address the property owner's interests. Separate from the owners' group, Dr. King also represents several of the commercial property owners at the Superfund Site and she has overseen vapor intrusion assessments and mitigation.

- On behalf of a Brownfields developer, Dr. King managed the preparation of the human health risk assessment, feasibility study, and remedial action plan (FS/RAP) at an 86-acre, near-bay site with more than 100 years of industrial activity that resulted in the release of pyrite cinders and associated acid and metals leaching to soil and groundwater, VOCs in soil and groundwater, PCBs in soil, and thiocarbamate pesticides in groundwater. The FS/RAP is the first in California to specifically address contingencies for potential future sea level rise as part of the remedy. Additionally, because the future land use at this site has not yet been defined, the FS/RAP provides a "menu" of potential remedial actions depending on the planned future land use, which is particularly significant for the vapor intrusion pathway. Dr. King oversaw the preparation and implementation of an accelerated PCB removal that was performed in consultation with U.S. EPA. In addition to significant technical challenges associated with the complex geochemistry at the site, Dr. King must consider and balance the interests of multiple stakeholders, including the client, the responsible party, State of California Department of Toxic Substances Control (DTSC), an active community group, and the insurer.
- At a residential site impacted with benzene, methyl tert butyl ether (MTBE), and other petroleum hydrocarbons and fuel oxygenates in shallow groundwater, Dr. King oversaw the evaluation of potential human health risks and remediation options. The project faces unique challenges because the source area is located underneath single-family homes, and the fine-grained soils limit the effectiveness of common remediation technologies. A dual-phase extraction (DPE) system has been installed at the site to remediate the source area and mitigate off-site migration of the chemicals of concern. In addition, sub-slab soil gas sampling is routinely performed to assess the vapor intrusion pathway.
- Dr. King provided expert services on behalf of a property owner regarding the appropriate petroleum hydrocarbon cleanup levels to apply at a former asphalt plant site in Northern California. The facility started operations in the 1960s. The most recent tenant is responsible for the remediation; however, the cleanup implemented by the tenant is not consistent with unrestricted commercial or industrial land use. Dr. King is advocating for cleanup levels that consider protection of human health and the environment.
- Dr. King supported the Presidio Trust in its negotiations with the U.S. Army for the transfer of $100 million and cleanup responsibilities to the Trust. These negotiations included extensive side-bar discussions to obtain buy-in from key stakeholders, including the National Park Service, U.S. EPA Region 9, DTSC, and California Regional Water Quality Control Board (RWQCB) staff. As Project Manager, she oversaw the preparation of an alternative remedial action document and a series of detailed engineering cost estimates that were used as the basis of negotiations. Since transfer, Dr. King has managed fast track remediation at petroleum release sites at the Presidio. She has also assisted the Trust with project planning and strategy at many areas of the former base including former landfills. In addition to managing site investigations and the preparation of various engineering documents (e.g., feasibility studies, remedial action plans) for submittal to the DTSC, she also managed the development of a contingency plan to address contamination that may be encountered during construction or other subgrade activities. Dr. King oversaw the development of a land use control management report for the Trust to implement long-term risk management measures. Dr. King is currently overseeing the development (a) of a database to compile closure documentation for more than 400 petroleum tank sites and (b) a site-wide approach to address potential residual contamination along fuel distribution system pipelines that formerly extended

more than 10 miles throughout the Presidio. Dr. King worked with the DTSC and a potential tenant to address vapor intrusion issues at a historical building.

- Dr. King assisted the City of Concord with reuse planning and environmental advocacy associated with the 5,200-acre Concord Naval Weapons Station, a National Priorities List (NPL) site. As part of this project, Dr. King oversaw the preparation of the hazardous materials chapter of the Environmental Impact Report (EIR) for the City's reuse plan. She has prepared comment letters on the Navy's proposed cleanup plans and is participating in discussions with the Navy, U.S. EPA Region 9, DTSC, and the RWQCB regarding the adequacy of investigation and cleanup at the 430-acre "bunker city" site that is impacted by arsenic as well as other sites.
- Dr. King oversaw the performance of a risk assessment and development of risk-based action levels at a former mercury mine that was active between 1890 and 1960. The mercury mine and associated tailings piles were located at a park in a residential neighborhood in Redwood City, CA. Dr. King evaluated available information on bioavailability of mercury to support the risk assessment and to advocate for a higher action level for mercury.
- Dr. King evaluated the proposed remedial actions at a former aerospace facility impacted with chlorinated solvents relative to the planned reuse as a commercial office space, residential, and public open space. Dr. King evaluated the incremental costs to remediate the site in a manner consistent with the planned re-use. Dr. King was deposed as part of arbitration on this project regarding cost allocation. She also oversaw preparation of a risk management plan to identify mitigation measures for protection of human health during and after construction. The risk mitigation measures included procedures to address unknown contamination encountered during construction, protocols for designing utilities, foundations, and other below-grade structures, and a sub-slab depressurization system to prevent vapor intrusion of VOCs to indoor air.
- Dr. King assisted a native-owned corporation with the evaluation of environmental conditions and transfer of cleanup responsibility at the former Adak Naval Air Facility in Alaska, a NPL site. As part of this work, Dr. King developed and advocated a risk-based cleanup approach consistent with planned residential and commercial/industrial reuse, including discussions with U.S. EPA Region 10.
- At a former manufactured gas plant property undergoing redevelopment, Dr. King managed the site remediation under the City and County of San Francisco's (CCSF) Maher Ordinance. A primary aspect of the development was the excavation and off-site disposal of approximately 100,000 cubic yards of soil. Dr. King oversaw negotiations with the CCSF and landfills to allow for soil characterization prior to excavation, thereby streamlining the excavation and disposal.
- On behalf of the Golden Gate National Parks Conservancy, Dr. King managed the evaluation and review of environmental investigations and the remedial action selection process performed by the U.S. Army for Crissy Field at the Presidio of San Francisco. As part of this project, she has negotiated with the Army, DTSC, and U.S. EPA Region 9 to implement remedial actions that were consistent with the restoration of Crissy Field to wetlands. This area is now a major attraction and recreational area used by thousands of residents and visitors annually.
- At several sites in the San Francisco Bay Area undergoing redevelopment, Dr. King has managed and written site-specific risk management plans (RMPs) or site management plans (SMPs) that provide a framework to manage risks to human health and the environment due to chemicals in the soil and groundwater to be implemented as a core element of redevelopment work. She has worked closely with the DTSC and the RWQCB staff and local agencies on these projects, ultimately resulting in a more streamlined review process. Implementation of these plans allows remediation to occur concurrently and cost-effectively with construction. The plans also typically include protocols for long-term management of residual chemicals on-site post-construction.

- Dr. King has performed and evaluated risk assessments for properties containing petroleum hydrocarbons, chlorinated solvents, PCBs and metals in soil and groundwater. She has worked closely with RWQCB and DTSC staff regarding exposure pathway analysis, exposure assumptions, and calculation of remedial goals as part of many site-specific risk assessments.
- At a manufacturing facility in Northern California, Dr. King provided project oversight for the preparation of an interim remedial action plan for a solvent release site adjacent to a creek. She managed the remedial design and construction of the groundwater extraction and treatment system, which has effectively curtailed further migration of VOCs into the creek. A dual-phase extraction system was installed to reduce VOC concentrations in soil and groundwater in the identified source area.
- As Project Scientist, Dr. King investigated the geology and groundwater chemistry of an industrial landfill containing sugar processing residues. By using the chemical equilibrium model, HYDRAQL, and chemical fingerprinting techniques, she demonstrated that the landfill had not impacted groundwater.
- At several sites, Dr. King, as Project Scientist, has analyzed the fate and transport of VOCs in the vadose zone using the computer code, VLEACH. She has also used VLEACH to determine potential impacts of VOCs to groundwater. In one case, Dr. King used VLEACH to show that the VOCs detected in the vadose zone originated from an off-site groundwater source, rather than an on-site source.
- For her doctoral thesis, Dr. King evaluated the ability of pyrite and ferrous iron bearing minerals to transform halogenated organic compounds. This research involved extensive laboratory analyses using gas chromatography, ion chromatography, and liquid scintillation counting to identify the transformation products of the VOCs. Additionally, the near-surface technique of x-ray photoelectron spectroscopy was used to evaluate the reaction products on the mineral surfaces.
- As a Fulbright Scholar in New Zealand, Dr. King assessed the seasonal fate of arsenic in a hydroelectric lake that was contaminated by runoff from a geothermal field and geothermal power station effluent. Field and laboratory testing indicated that arsenic (III), the more toxic form of arsenic, was released from the sediments to the lake when the lake was stratified in the summer months. From her laboratory testing, she published protocols for the storage of natural water samples containing metals such as iron and arsenic.

Publications

Moes, M. J, M. K. King and T. W. Kalinowski, 2012, Engineering Evaluation of Including Sub-Slab Liners in Active Vapor Intrusion Mitigation Systems, Air & Waste Management Association Vapor Intrusion Conference Proceedings, 3-4 October 2012.

Moes, M. J, M. K. King, C. A. Cuadrado, and T. W. Kalinowski, 2012, Quantitative Review of EPA's Proposed Vapor Intrusion Attenuation Factor for Exterior Soil Gas, and the Potential Impact on Brownfield Development, Air & Waste Management Association Vapor Intrusion Conference Proceedings, 3-4 October 2012.

Kriegman-King, M. R. and Reinhard, M., 1994, Transformation of Carbon Tetrachloride by Pyrite in Aqueous Systems: *Environ. Sci. Technol.*, v. 28, p. 692–700.

Kriegman-King, M. R. and Reinhard, M. 1994, *Abiotic Transformation of Carbon Tetrachloride at Mineral Surfaces*: EPA Report 600/SR–94/018 for R.S. Kerr Environmental Research Laboratory, Ada, Oklahoma.

Kriegman-King, M. R. and Reinhard, M., 1992, Transformation of Carbon Tetrachloride in the Presence of Sulfide, Biotite and Vermiculite: *Environ. Sci. Technol*., v. 26, p. 2198–2206.

Kriegman-King, M. R. and Reinhard, M., 1991, Reduction of Hexachloroethane and Carbon Tetrachloride at Surfaces of Biotite, Vermiculite, Pyrite and Marcasite, *in* Baker, R., ed., *Organic Substances and Sediments in Water*, v. 2, Processes and Analytical: Lewis Publishers, Inc., Chelsea, MI, p. 349–364.

Aggett, J. and Kriegman, M. R., 1988, The Extent of Formation of Arsenic (III) in Sediment Interstitial Waters and its Release to Hypolimnetic Waters in Lake Ohakuri, *Water Res.*, v. 22, p. 407–411.

Aggett, J. and Kriegman, M. R., 1987, Preservation of Arsenic (III) and Arsenic (V) Samples in Natural Waters, *Analyst*, v. 112, p. 153–157.

Presentations

King, M. K., Wuelfing, K., December 2016, Vapor Intrusion Assessment and Mitigation: A Corporate Approach to Addressing the Legacy of Silicon Valley: California Industrial Hygiene Council Seminar, San Diego, CA.

King, M. K., October 2014, Vapor Intrusion Coming to a Property Near You: 2014 Environmental Law Conference at Yosemite, Fish Camp, CA.

King, M. K., July 2014, Vapor Intrusion: Regulators and the Regulated Community, Bar Association of San Francisco Meeting, San Francisco, CA.

King, M. K., April 2011, Brownfields Development for Sensitive Uses: Key Elements to Allow for Long-Term Success: U.S. EPA's Brownfields 2011 Conference, Philadelphia, PA.

King, M. K., November 2009, Contingency Planning for Sea Level Rise in Feasibility Study/Remedial Action Plan: U.S. EPA's Brownfields 2009 Conference, New Orleans, LA.

King, M. K., January 2009, The Public Health Service Hospital at the Presidio of San Francisco: Where Landfills and Steep Slopes Meet Native Plant Restoration and Steep Slopes: National Brownfields Associations California Chapter Meeting, Sacramento, CA.

Kriegman-King, M. R. and Reinhard, M., March 28 –April 2, 1993, Reduction of Carbon Tetrachloride by Pyrite: Amer. Chem. Society Meeting, Denver, CO.

Kriegman-King, M. R. and Reinhard, M., April 5–10, 1992, Abiotic transformation of carbon tetrachloride in the presence of sulfide and mineral surfaces: Amer. Chem. Soc. Mtg., San Francisco, CA.

Kriegman, M. R., Curtis, G. P., and Reinhard, M., April 22–27, 1990, Transformations of carbon tetrachloride and hexachloroethane induced by natural sediments and minerals under anaerobic conditions: Amer. Chem. Soc. Mtg., Boston, MA.

Kriegman, M. R. and Reinhard, M., Sept. 10–15, 1989, Electron transfer reactions of haloaliphatic compounds and ferrous iron bearing minerals: Amer. Chem. Soc. Mtg., Miami, FL.

Honors

Outside Reviewer for San Francisco Regional Water Quality Control Board Draft Updated Environmental Screening Levels, 2011-2012.

Vice Chair, San Francisco Chapter of the National Brownfields Associations, 2009.

Invited attendee at California Environmental Protection Agency Health and Environmental Risk Division Off-Site at Asilomar, CA, November 2008.

Reviewer for Environmental Science & Technology and Environmental Toxicology and Chemistry.

Certificate of Merit for Presentation at American Chemical Society Meeting, Boston, MA, April 1990.

Fulbright Scholar to New Zealand, July 1985 – July 1986.

Elected to Sigma Xi, 1985.

James D. Yoon, PE

Civil / Environmental Engineer

Education

- California Institute of Technology, B.S. Chemical Engineering, 2007

Registrations/Certifications

- Professional Civil Engineer in California (C#81882)
- Forty-hour Hazwoper Training Course

Summary of Experience

For over ten years, Mr. Yoon has been providing engineering technical support for EKI's projects in southern and northern California. He designs remedial systems, collects samples and data as part of remediation system operations and site investigations, develops and runs simulation models, estimates remedial action costs, compiles investigation databases, assists with contractor selection and communications, and prepares technical reports. In particular, Mr. Yoon works on engineering assessments of environmental data, evaluations of remedial technologies, prepares engineering cost estimates for site-specific applications of remedial actions at contaminated sites, writes technical specifications for construction plans, and implements remedial system designs. His experience includes technical environmental issues associated with dry cleaning facilities, metals processing and plating shops, transit centers, former oilfields, horse racetracks, jet fuel storage and distribution facilities, vehicle fueling and service stations, storefronts and grocery stores, meat processing facilities, sports arenas, airports and airplane hangars, and high-pressure natural gas lines.

Detailed Experience

- Mr. Yoon provides technical engineering support for facility closure planning and evaluation. He has provided engineering design, review, and management of operations and monitoring for a remediation system at a 238-acre commercial horse racing track located in metropolitan Los Angeles, including assistance with soil vapor extraction (SVE) remediation system design for a former dry cleaner impacted by tetrachloroethene (PCE); preparation of contractor bid documents; assistance with contractor selection and contractor communications; technical support during SVE system installation and operations; collection of samples and reporting data to the Regional Water Quality Control Board (RWQCB); collection of samples during rebound testing; and preparation of remedial design strategies based on rebound data evaluation.
- Mr. Yoon has designed a combined SVE and free product skimming remediation system to assist vacuum enhanced product recovery for remediation of solvents such as PCE and subsurface free phase cutting oil under different levels of vacuum at a former faucet manufacturing facility. He provided technical engineering assistance during data collection and evaluation; assisted with design of the final remediation system; and performed ongoing evaluation and implementation of the final remediation system, including modifications to the final remedial strategy based on changing subsurface conditions.
- Mr. Yoon has provided technical engineering support for redevelopment of a large former commercial property, including preparation of construction documents and specifications and assistance with environmental sampling and reporting during earthwork.
- Mr. Yoon has provided technical engineering support for a free hydrocarbon product recovery system at a 20 million gallon above-ground fuel storage facility at Los Angeles International Airport (LAX), including review and oversight of operation and maintenance of a recovery system for Jet A fuel free hydrocarbon product and a groundwater extraction and treatment system processing 130 gallons per minute of groundwater impacted by jet fuel, volatile organic compounds (VOCs), and 1,4-dioxane, including monitoring and reporting obligations under a National Pollutant Discharge Elimination System (NPDES) general permit. As part of the project team, Mr. Yoon assisted with preparation of a

remedial strategy update, evaluation of historical reports and data, presentations to the RWQCB, and assistance with remediation system decommissioning and monitoring well destruction.

- Mr. Yoon has provided technical engineering support for the California Environmental Quality Act ("CEQA") process for a large commercial facility in metropolitan Los Angeles, including assistance with preparation of the hazardous materials section of an Environmental Impact Report; and preparation and evaluation of hazardous materials management strategies as part of a soil management plan.
- Mr. Yoon assists field investigations by designing investigation work plans to meet project goals; preparing contractor work authorizations; communicating and coordinating with contractors, clients, and field personnel; conducting field sampling activities as part of work plan implementation; conducting operations and maintenance for remediation systems; and preparing field documentation and reports.
- Mr. Yoon has prepared Phase I environmental site assessments (ESAs) for properties throughout California and in several states and countries. Mr. Yoon has reviewed files from the RWQCB, Department of Toxic Substances Control (DTSC), California Division of Oil, Gas, and Geothermal Resources (DOGGR), and other state and municipal government archives, and conducted site visits and interviews as part of Phase I ESA preparation.
- Mr. Yoon has provided technical support for municipal brownfields programs in Los Angeles County, including preparation of Phase I and Phase II ESAs, site visits to evaluate potential brownfields properties, data evaluation, preparation of databases of brownfield property information for municipal planning use, design of Quality Assurance Project Plans (QAPP) and Sampling and Analysis Plans approved by the U.S. EPA, and evaluation of city-wide groundwater contamination areas.
- Mr. Yoon has modeled and analyzed contaminant discharges to air using AERMOD, an EPA-approved model, including calculation of modeling parameters; obtaining meteorological data from the National Climatic Data Center; model preparation and execution; and model analysis and report preparation.
- Mr. Yoon has used Summation Blaze litigation support software and database software to review and sort historical files related to environmental assessment liability issues for a large petrochemical facility in Kentucky and a large manufacturing facility in metropolitan Los Angeles.
- Mr. Yoon supports remedial efforts by developing scopes of work, cost estimates, contractor bidding documents, work authorizations, and health and safety plans.
- Mr. Yoon prepared a SWPPP and associated training program for a Jet A fuel storage facility at a Los Angeles area airport, assisted in preparing regulatory submittals, and compiled associated training materials including federal and state regulatory requirements for SWPPPs.
- Mr. Yoon has provided technical support for a NPDES monitoring program for a commercial manufacturing facility in Northern California, including review of NPDES permit documents, communications with contractors, and technical review of monitoring data and reports.
- Mr. Yoon has conducted field investigations and prepared investigation reports to describe environmental conditions based on soil, soil vapor, and groundwater analytical results and field investigation data.

APPENDIX G

LABORATORY ANALYTICAL REPORTS

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

TRANSMITTAL

DATE: 3/26/2019

TO: MS. MICHELLE KING
MR. JAMES YOON
MS. JACKI LEE
EKI ENVIRONMENT & WATER, INC.
577 AIRPORT BLVD, STE 500
BURLINGAME, CA 94010

Phone: 650-292-9100
Email: labs@ekiconsult.com
mkking@ekiconsult.com
jyoon@ekiconsult.com
jlee@ekiconsult.com

ACCT: 9115
PROJ: B80116.00

FROM: Richard A. Kagel, Ph.D. RAK
Laboratory Director by AB 3/26/19

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT B80116.00

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
1001-GW-1	WATER	3/21/2019	14:52	180834
1001-GW-2	WATER	3/21/2019	13:58	180835
1001-GW-3	WATER	3/21/2019	12:14	180836
1001-GW-4	WATER	3/21/2019	10:36	180837
1001-GW-5	WATER	3/21/2019	9:05	180838
1001-GW-DUP	WATER	3/21/2019	10:36	180839

The above listed sample group was received on 3/21/2019 and tested as requested on the chain of custody document.

Please call me if you have any questions or need further information.
Thank you for this opportunity to be of service.

K PRIME, INC.
LABORATORY REPORT

SAMPLE ID: 1001-GW-1
LAB NO: 180834
DATE SAMPLED: 03/21/2019
TIME SAMPLED: 14:52
BATCH NO: 031919W1
DATE ANALYZED: 03/25/2019

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER
UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND
CHLOROMETHANE	74-87-3	0.500	ND
VINYL CHLORIDE	75-01-4	0.500	ND
BROMOMETHANE	74-83-9	0.500	ND
CHLOROETHANE	75-00-3	0.500	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND
1,1-DICHLOROETHENE	75-35-4	0.500	0.700
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND
METHYLENE CHLORIDE	75-09-2	2.50	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	2.35
1,1-DICHLOROETHANE	75-34-3	0.500	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	27.5
2,2-DICHLOROPROPANE	594-20-7	0.500	ND
BROMOCHLOROMETHANE	74-97-5	0.500	ND
CHLOROFORM	67-66-3	0.500	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND
1,1-DICHLOROPROPENE	563-58-6	0.500	ND
BENZENE	71-43-2	0.500	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND
TRICHLOROETHENE	79-01-6	0.500	93.5
1,2-DICHLOROPROPANE	78-87-5	0.500	ND
DIBROMOMETHANE	74-95-3	0.500	ND
BROMODICHLOROMETHANE	75-27-4	0.500	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND
TOLUENE	108-88-3	0.500	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND
TETRACHLOROETHENE	127-18-4	0.500	ND
1,3-DICHLOROPROPANE	142-28-9	0.500	ND
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND
CHLOROBENZENE	108-90-7	0.500	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND
ETHYLBENZENE	100-41-4	0.500	ND
XYLENE (M+P)	1330-20-7	0.500	ND
XYLENE (O)	1330-20-7	0.500	ND
STYRENE	100-42-5	0.500	ND
BROMOFORM	75-25-2	0.500	ND
ISOPROPYLBENZENE	98-82-8	0.500	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND
BROMOBENZENE	108-86-1	0.500	ND
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND
N-PROPYLBENZENE	103-65-1	0.500	ND
2-CHLOROTOLUENE	95-49-8	0.500	ND

K PRIME, INC.
LABORATORY REPORT

SAMPLE ID: 1001-GW-1
LAB NO: 180834
DATE SAMPLED: 03/21/2019
TIME SAMPLED: 14:52
BATCH NO: 031919W1
DATE ANALYZED: 03/25/2019

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER
UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLTOLUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BUTYLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND
NAPHTHALENE	91-20-3	1.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	102
TOLUENE-D8	101
4-BROMOFLUOROBENZENE	100

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY: _____
DATE: 3/26/19

K PRIME, INC.
LABORATORY REPORT

SAMPLE ID: 1001-GW-2
LAB NO: 180835
DATE SAMPLED: 03/21/2019
TIME SAMPLED: 13:58
BATCH NO: 031919W1
DATE ANALYZED: 03/25/2019

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER
UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	2.50	ND
CHLOROMETHANE	74-87-3	2.50	ND
VINYL CHLORIDE	75-01-4	2.50	ND
BROMOMETHANE	74-83-9	2.50	ND
CHLOROETHANE	75-00-3	2.50	ND
TRICHLOROFLUOROMETHANE	75-69-4	2.50	ND
1,1-DICHLOROETHENE	75-35-4	2.50	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	2.50	ND
METHYLENE CHLORIDE	75-09-2	12.5	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	2.50	ND
1,1-DICHLOROETHANE	75-34-3	2.50	ND
CIS-1,2-DICHLOROETHENE	156-59-2	2.50	208
2,2-DICHLOROPROPANE	594-20-7	2.50	ND
BROMOCHLOROMETHANE	74-97-5	2.50	ND
CHLOROFORM	67-66-3	2.50	ND
1,1,1-TRICHLOROETHANE	71-55-6	2.50	ND
CARBON TETRACHLORIDE	56-23-5	2.50	ND
1,1-DICHLOROPROPENE	563-58-6	2.50	ND
BENZENE	71-43-2	2.50	ND
1,2-DICHLOROETHANE	107-06-2	2.50	ND
TRICHLOROETHENE	79-01-6	2.50	19.1
1,2-DICHLOROPROPANE	78-87-5	2.50	ND
DIBROMOMETHANE	74-95-3	2.50	ND
BROMODICHLOROMETHANE	75-27-4	2.50	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	2.50	ND
TOLUENE	108-88-3	2.50	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	2.50	ND
1,1,2-TRICHLOROETHANE	79-00-5	2.50	ND
TETRACHLOROETHENE	127-18-4	2.50	ND
1,3-DICHLOROPROPANE	142-28-9	2.50	ND
DIBROMOCHLOROMETHANE	124-48-1	2.50	ND
1,2-DIBROMOETHANE	106-93-4	2.50	ND
CHLOROBENZENE	108-90-7	2.50	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	2.50	ND
ETHYLBENZENE	100-41-4	2.50	ND
XYLENE (M+P)	1330-20-7	2.50	ND
XYLENE (O)	1330-20-7	2.50	ND
STYRENE	100-42-5	2.50	ND
BROMOFORM	75-25-2	2.50	ND
ISOPROPYLBENZENE	98-82-8	2.50	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	2.50	ND
BROMOBENZENE	108-86-1	2.50	ND
1,2,3-TRICHLOROPROPANE	96-18-4	2.50	ND
N-PROPYLBENZENE	103-65-1	2.50	ND
2-CHLOROTOLUENE	95-49-8	2.50	ND

K PRIME, INC.
LABORATORY REPORT

SAMPLE ID: 1001-GW-2
LAB NO: 180835
DATE SAMPLED: 03/21/2019
TIME SAMPLED: 13:58
BATCH NO: 031919W1
DATE ANALYZED: 03/25/2019

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER
UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	2.50	ND
4-CHLOROTOLUENE	106-43-4	2.50	ND
TERT-BUTYLBENZENE	98-06-6	2.50	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	2.50	ND
SEC-BUTYLBENZENE	135-98-8	2.50	ND
1,3-DICHLOROBENZENE	541-73-1	2.50	ND
4-ISOPROPYLTOLUENE	99-87-6	2.50	ND
1,4-DICHLOROBENZENE	106-46-7	2.50	ND
N-BUTYLBENZENE	104-51-8	2.50	ND
1,2-DICHLOROBENZENE	95-50-1	2.50	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	2.50	ND
1,2,4-TRICHLOROBENZENE	120-82-1	5.00	ND
HEXACHLOROBUTADIENE	87-68-3	5.00	ND
NAPHTHALENE	91-20-3	5.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	5.00	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	104
TOLUENE-D8	101
4-BROMOFLUOROBENZENE	100

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY: _____
DATE: 3/26/19

K PRIME, INC.
LABORATORY REPORT

SAMPLE ID: 1001-GW-3
LAB NO: 180836
DATE SAMPLED: 03/21/2019
TIME SAMPLED: 12:14
BATCH NO: 031919W1
DATE ANALYZED: 03/25/2019

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER
UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND
CHLOROMETHANE	74-87-3	0.500	ND
VINYL CHLORIDE	75-01-4	0.500	ND
BROMOMETHANE	74-83-9	0.500	ND
CHLOROETHANE	75-00-3	0.500	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND
METHYLENE CHLORIDE	75-09-2	2.50	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	2.44
2,2-DICHLOROPROPANE	594-20-7	0.500	ND
BROMOCHLOROMETHANE	74-97-5	0.500	ND
CHLOROFORM	67-66-3	0.500	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND
1,1-DICHLOROPROPENE	563-58-6	0.500	ND
BENZENE	71-43-2	0.500	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND
TRICHLOROETHENE	79-01-6	0.500	14.1
1,2-DICHLOROPROPANE	78-87-5	0.500	ND
DIBROMOMETHANE	74-95-3	0.500	ND
BROMODICHLOROMETHANE	75-27-4	0.500	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND
TOLUENE	108-88-3	0.500	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND
TETRACHLOROETHENE	127-18-4	0.500	ND
1,3-DICHLOROPROPANE	142-28-9	0.500	ND
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND
CHLOROBENZENE	108-90-7	0.500	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND
ETHYLBENZENE	100-41-4	0.500	ND
XYLENE (M+P)	1330-20-7	0.500	ND
XYLENE (O)	1330-20-7	0.500	ND
STYRENE	100-42-5	0.500	ND
BROMOFORM	75-25-2	0.500	ND
ISOPROPYLBENZENE	98-82-8	0.500	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND
BROMOBENZENE	108-86-1	0.500	ND
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND
N-PROPYLBENZENE	103-65-1	0.500	ND
2-CHLOROTOLUENE	95-49-8	0.500	ND

K PRIME, INC.
LABORATORY REPORT

SAMPLE ID: 1001-GW-3
LAB NO: 180836
DATE SAMPLED: 03/21/2019
TIME SAMPLED: 12:14
BATCH NO: 031919W1
DATE ANALYZED: 03/25/2019

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER
UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLTOLUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BUTYLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND
NAPHTHALENE	91-20-3	1.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	106
TOLUENE-D8	100
4-BROMOFLUOROBENZENE	98

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY: _____
DATE: 3/26/19

K PRIME, INC.
LABORATORY REPORT

SAMPLE ID: 1001-GW-4
LAB NO: 180837
DATE SAMPLED: 03/21/2019
TIME SAMPLED: 10:36
BATCH NO: 031919W1
DATE ANALYZED: 03/25/2019

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER
UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND
CHLOROMETHANE	74-87-3	0.500	ND
VINYL CHLORIDE	75-01-4	0.500	ND
BROMOMETHANE	74-83-9	0.500	ND
CHLOROETHANE	75-00-3	0.500	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND
METHYLENE CHLORIDE	75-09-2	2.50	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	9.88
2,2-DICHLOROPROPANE	594-20-7	0.500	ND
BROMOCHLOROMETHANE	74-97-5	0.500	ND
CHLOROFORM	67-66-3	0.500	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND
1,1-DICHLOROPROPENE	563-58-6	0.500	ND
BENZENE	71-43-2	0.500	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND
TRICHLOROETHENE	79-01-6	0.500	ND
1,2-DICHLOROPROPANE	78-87-5	0.500	ND
DIBROMOMETHANE	74-95-3	0.500	ND
BROMODICHLOROMETHANE	75-27-4	0.500	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND
TOLUENE	108-88-3	0.500	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND
TETRACHLOROETHENE	127-18-4	0.500	ND
1,3-DICHLOROPROPANE	142-28-9	0.500	ND
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND
CHLOROBENZENE	108-90-7	0.500	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND
ETHYLBENZENE	100-41-4	0.500	ND
XYLENE (M+P)	1330-20-7	0.500	ND
XYLENE (O)	1330-20-7	0.500	ND
STYRENE	100-42-5	0.500	ND
BROMOFORM	75-25-2	0.500	ND
ISOPROPYLBENZENE	98-82-8	0.500	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND
BROMOBENZENE	108-86-1	0.500	ND
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND
N-PROPYLBENZENE	103-65-1	0.500	ND
2-CHLOROTOLUENE	95-49-8	0.500	ND

K PRIME, INC.
LABORATORY REPORT

SAMPLE ID: 1001-GW-4
LAB NO: 180837
DATE SAMPLED: 03/21/2019
TIME SAMPLED: 10:36
BATCH NO: 031919W1
DATE ANALYZED: 03/25/2019

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER
UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLTOLUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BUTYLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND
NAPHTHALENE	91-20-3	1.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	106
TOLUENE-D8	100
4-BROMOFLUOROBENZENE	98

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY: _____
DATE: 3/26/19

K PRIME, INC.
LABORATORY REPORT

SAMPLE ID: 1001-GW-5
LAB NO: 180838
DATE SAMPLED: 03/21/2019
TIME SAMPLED: 09:05
BATCH NO: 031919W1
DATE ANALYZED: 03/25/2019

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER
UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.00	ND
CHLOROMETHANE	74-87-3	1.00	ND
VINYL CHLORIDE	75-01-4	1.00	ND
BROMOMETHANE	74-83-9	1.00	ND
CHLOROETHANE	75-00-3	1.00	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	ND
1,1-DICHLOROETHENE	75-35-4	1.00	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	ND
METHYLENE CHLORIDE	75-09-2	5.00	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.00	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.00	ND
2,2-DICHLOROPROPANE	594-20-7	1.00	ND
BROMOCHLOROMETHANE	74-97-5	1.00	ND
CHLOROFORM	67-66-3	1.00	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.00	ND
CARBON TETRACHLORIDE	56-23-5	1.00	ND
1,1-DICHLOROPROPENE	563-58-6	1.00	ND
BENZENE	71-43-2	1.00	ND
1,2-DICHLOROETHANE	107-06-2	1.00	ND
TRICHLOROETHENE	79-01-6	1.00	ND
1,2-DICHLOROPROPANE	78-87-5	1.00	ND
DIBROMOMETHANE	74-95-3	1.00	ND
BROMODICHLOROMETHANE	75-27-4	1.00	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND
TOLUENE	108-88-3	1.00	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND
TETRACHLOROETHENE	127-18-4	1.00	ND
1,3-DICHLOROPROPANE	142-28-9	1.00	ND
DIBROMOCHLOROMETHANE	124-48-1	1.00	ND
1,2-DIBROMOETHANE	106-93-4	1.00	ND
CHLOROBENZENE	108-90-7	1.00	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	1.00	ND
ETHYLBENZENE	100-41-4	1.00	2.32
XYLENE (M+P)	1330-20-7	1.00	ND
XYLENE (O)	1330-20-7	1.00	ND
STYRENE	100-42-5	1.00	ND
BROMOFORM	75-25-2	1.00	ND
ISOPROPYLBENZENE	98-82-8	1.00	43.5
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND
BROMOBENZENE	108-86-1	1.00	ND
1,2,3-TRICHLOROPROPANE	96-18-4	1.00	ND
N-PROPYLBENZENE	103-65-1	1.00	172
2-CHLOROTOLUENE	95-49-8	1.00	ND

K PRIME, INC.
LABORATORY REPORT

SAMPLE ID: 1001-GW-5
LAB NO: 180838
DATE SAMPLED: 03/21/2019
TIME SAMPLED: 09:05
BATCH NO: 031919W1
DATE ANALYZED: 03/25/2019

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER
UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND
4-CHLOROTOLUENE	106-43-4	1.00	ND
TERT-BUTYLBENZENE	98-06-6	1.00	2.38
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND
SEC-BUTYLBENZENE	135-98-8	1.00	22.9
1,3-DICHLOROBENZENE	541-73-1	1.00	ND
4-ISOPROPYLTOLUENE	99-87-6	1.00	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND
N-BUTYLBENZENE	104-51-8	1.00	44.3
1,2-DICHLOROBENZENE	95-50-1	1.00	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	1.00	ND
1,2,4-TRICHLOROBENZENE	120-82-1	2.00	ND
HEXACHLOROBUTADIENE	87-68-3	2.00	ND
NAPHTHALENE	91-20-3	2.00	3.32
1,2,3-TRICHLOROBENZENE	87-61-6	2.00	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	104
TOLUENE-D8	99
4-BROMOFLUOROBENZENE	95

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY: _____
DATE: 3/26/19

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE ID: 1001-GW-DUP
LAB NO: 180839
DATE SAMPLED: 03/21/2019
TIME SAMPLED: 10:36
BATCH NO: 031919W1
DATE ANALYZED: 03/25/2019

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER
UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND
CHLOROMETHANE	74-87-3	0.500	ND
VINYL CHLORIDE	75-01-4	0.500	ND
BROMOMETHANE	74-83-9	0.500	ND
CHLOROETHANE	75-00-3	0.500	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND
METHYLENE CHLORIDE	75-09-2	2.50	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	9.79
2,2-DICHLOROPROPANE	594-20-7	0.500	ND
BROMOCHLOROMETHANE	74-97-5	0.500	ND
CHLOROFORM	67-66-3	0.500	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND
1,1-DICHLOROPROPENE	563-58-6	0.500	ND
BENZENE	71-43-2	0.500	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND
TRICHLOROETHENE	79-01-6	0.500	ND
1,2-DICHLOROPROPANE	78-87-5	0.500	ND
DIBROMOMETHANE	74-95-3	0.500	ND
BROMODICHLOROMETHANE	75-27-4	0.500	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND
TOLUENE	108-88-3	0.500	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND
TETRACHLOROETHENE	127-18-4	0.500	ND
1,3-DICHLOROPROPANE	142-28-9	0.500	ND
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND
CHLOROBENZENE	108-90-7	0.500	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND
ETHYLBENZENE	100-41-4	0.500	ND
XYLENE (M+P)	1330-20-7	0.500	ND
XYLENE (O)	1330-20-7	0.500	ND
STYRENE	100-42-5	0.500	ND
BROMOFORM	75-25-2	0.500	ND
ISOPROPYLBENZENE	98-82-8	0.500	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND
BROMOBENZENE	108-86-1	0.500	ND
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND
N-PROPYLBENZENE	103-65-1	0.500	ND
2-CHLOROTOLUENE	95-49-8	0.500	ND

K PRIME, INC.
LABORATORY REPORT

SAMPLE ID: 1001-GW-DUP
LAB NO: 180839
DATE SAMPLED: 03/21/2019
TIME SAMPLED: 10:36
BATCH NO: 031919W1
DATE ANALYZED: 03/25/2019

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER
UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLTOLUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BUTYLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND
NAPHTHALENE	91-20-3	1.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	112
TOLUENE-D8	101
4-BROMOFLUOROBENZENE	105

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY: _____
DATE: 3/26/19

K PRIME, INC.
LABORATORY BATCH QC REPORT

METHOD BLANK ID: B031919W1
BATCH NO: 031919W1
DATE ANALYZED: 03/19/2019

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER
UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND
CHLOROMETHANE	74-87-3	0.500	ND
VINYL CHLORIDE	75-01-4	0.500	ND
BROMOMETHANE	74-83-9	0.500	ND
CHLOROETHANE	75-00-3	0.500	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND
METHYLENE CHLORIDE	75-09-2	2.50	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	ND
2,2-DICHLOROPROPANE	594-20-7	0.500	ND
BROMOCHLOROMETHANE	74-97-5	0.500	ND
CHLOROFORM	67-66-3	0.500	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND
1,1-DICHLOROPROPENE	563-58-6	0.500	ND
BENZENE	71-43-2	0.500	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND
TRICHLOROETHENE	79-01-6	0.500	ND
1,2-DICHLOROPROPANE	78-87-5	0.500	ND
DIBROMOMETHANE	74-95-3	0.500	ND
BROMODICHLOROMETHANE	75-27-4	0.500	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND
TOLUENE	108-88-3	0.500	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND
TETRACHLOROETHENE	127-18-4	0.500	ND
1,3-DICHLOROPROPANE	142-28-9	0.500	ND
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND
CHLOROBENZENE	108-90-7	0.500	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND
ETHYLBENZENE	100-41-4	0.500	ND
XYLENE (M+P)	1330-20-7	0.500	ND
XYLENE (O)	1330-20-7	0.500	ND
STYRENE	100-42-5	0.500	ND
BROMOFORM	75-25-2	0.500	ND
ISOPROPYLBENZENE	98-82-8	0.500	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND
BROMOBENZENE	108-86-1	0.500	ND
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND
N-PROPYLBENZENE	103-65-1	0.500	ND
2-CHLOROTOLUENE	95-49-8	0.500	ND

K PRIME, INC.

LABORATORY BATCH QC REPORT

METHOD BLANK ID: B031919W1
BATCH NO: 031919W1
DATE ANALYZED: 03/19/2019

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER
UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLTOLUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BUTYLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND
NAPHTHALENE	91-20-3	1.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	91
TOLUENE-D8	100
4-BROMOFLUOROBENZENE	98

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA -NOT APPLICABLE OR AVAILABLE

K PRIME, INC.
LABORATORY BATCH QC REPORT

SAMPLE ID: B031919W1
SPIKE ID: L031919W1
DUPLICATE ID: D031919W1
BATCH NO: 031919W1
SAMPLE TYPE: WATER
UNITS: µg/L

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260

ACCURACY (MATRIX SPIKE)

COMPOUND NAME	SPIKE ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
1,1 DICHLOROETHENE	10.0	ND	8.54	85	60-140
BENZENE	10.0	ND	9.05	91	60-140
TRICHLOROETHENE	10.0	ND	9.14	91	60-140
TOLUENE	10.0	ND	9.73	97	60-140
CHLOROBENZENE	10.0	ND	10.0	100	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
1,1 DICHLOROETHENE	0.500	8.54	9.11	6.5	±20
BENZENE	0.500	9.05	8.74	3.5	±20
TRICHLOROETHENE	0.500	9.14	8.82	3.6	±20
TOLUENE	0.500	9.73	9.37	3.8	±20
CHLOROBENZENE	0.500	10.0	10.1	0.5	±20

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

EKI Environment & Water, Inc.

CHAIN OF CUSTODY RECORD

9115

Formerly known as Erler & Kalinowski, Inc. 577 Airport Blvd. Suite 500, Burlingame CA 94010-2023 www.ekiconsult.com PHONE: 650-292-9100 FAX: 650-552-9012

Project Name: The Residences at Shoreline Gateway

Project No.: B80116.00

Location: Mountain View, CA

Sampled By: Priscilla DeJesus

Reporting:
Electronic Format: NA Hard Copy Format: PDF
EPA Data Report Level: II Report as: As Received
Please report results to the following people:
(1) Data Archive: labs@ekiconsult.com
(2) Michelle King: mking@ekiconsult.com
(3) James Yoon: jyoon@ekiconsult.com
(4) Jacki Lee: jlee@ekiconsult.com

Laboratory:
K-Prime Laboratories, Inc.
3621 Westwind Boulevard
Santa Rosa, CA, USA 95403
(707) 527-7574

ANALYSES REQUESTED

EKI COC No.: (YYYYMMDD-#)

Revision: _____ (A, B, C, D, etc.)
Date: By:

Field Sample Identification	Lab Sample No.	Date	Time	Matrix	No./Type of Containers	Method No. / Analyte Group: EPA 8260 VOCs	HOLD	EXPECTED TURN-AROUND TIME	REMARKS
1001-GW-1	180834	03/21/19	1452	Water	3 VOAs w/HCl	x		5-day	
1001-GW-2	180835	03/21/19	1358	Water	3 VOAs w/HCl	x		5-day	
1001-GW-3	180836	03/21/19	1214	Water	3 VOAs w/HCl	x		5-day	
1001-GW-4	180837	3/21/19	1036	Water	3 VOAs w/HCl	x		5-day	
1001-GW-5	180838	03/21/19	0905	Water	3 VOAs w/HCl	x		5-day	
1001-GW-DUP	180839	03/21/19	1036	Water	3 VOAs w/HCl	x		5-day	

Special Instructions:

Questions regarding COC, contact Priscilla DeJesus (650) 292-9104

Relinquished by: Priscilla DeJesus	(Signature/Affiliation) EKI	Date 03/21/19	Time 16:40	Received by: (Signature/Affiliation or Carrier/Air Bill No.)
Relinquished by:	(Signature/Affiliation)	Date 3/21/19	Time 19:15	Received by: (Signature/Affiliation)
Relinquished by:	(Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)

9115

PAGE 1 OF 1

EKI Environment & Water, Inc.

CHAIN OF CUSTODY RECORD

Formerly known as Erler & Kalinowski, Inc. 577 Airport Blvd. Suite 500, Burlingame CA 94010-2023 www.ekiconsult.com PHONE: 650-292-9100 FAX: 650-552-9012

Project Name: The Residences at Shoreline Gateway

Project No.: B80116.00

Location: Mountain View, CA

Sampled By: Priscilla DeJesus

Reporting:
Electronic Format: NA Hard Copy Format: PDF
EPA Data Report Level: II Report as: As Received
Please report results to the following people:
(1) Data Archive: labs@ekiconsult.com
(2) Michelle King: mking@ekiconsult.com
(3) James Yoon: jyoon@ekiconsult.com
(4) Jacki Lee: jlee@ekiconsult.com

Laboratory:
K-Prime Laboratories, Inc.
3621 Westwind Boulevard
Santa Rosa, CA, USA 95403
(707) 527-7574

EKI COC No.: (YYYYMMDD-#)

Revision: _____ (A, B, C, D, etc.)
Date: By:

Field Sample Identification	Lab Sample No.	Date	Time	Matrix	No./Type of Containers	Method No. / Analyte Group: EPA 8260 VOCs	HOLD	EXPECTED TURN-AROUND TIME	REMARKS
1001-GW-1	180834	03/21/19	1452	Water	3 VOAs w/HCl	x		STANDARD	
1001-GW-2	180835	03/21/19	1358	Water	3 VOAs w/HCl	x		STANDARD	
1001-GW-3	180836	03/21/19	1214	Water	3 VOAs w/HCl	x		STANDARD	
1001-GW-4	180837	3/21/19	1036	Water	3 VOAs w/HCl	x		STANDARD	
1001-GW-5	180838	03/21/19	0905	Water	3 VOAs w/HCl	x		STANDARD	
1001-GW-DUP	180839	03/21/19	1036	Water	3 VOAs w/HCl	x		STANDARD	

Special Instructions:

Questions regarding COC, contact Priscilla DeJesus (650) 292-9104

Relinquished by: Priscilla DeJesus	(Signature/Affiliation) EKI	Date 03/21/19	Time 16:40	Received by: (Signature/Affiliation or Carrier/Air Bill No.)
Relinquished by:	(Signature/Affiliation)	Date 3/21/19	Time 19:15	Received by: (Signature/Affiliation)
Relinquished by:	(Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

TRANSMITTAL

DATE: 3/27/2019

TO: MS. MICHELLE KING
MR. JAMES YOON
MS. JACKI LEE
EKI ENVIRONMENT & WATER, INC.
577 AIRPORT BLVD, STE 500
BURLINGAME, CA 94010

Phone: 650-292-9100
Email: labs@ekiconsult.com
mkking@ekiconsult.com
jyoon@ekiconsult.com
jlee@ekiconsult.com

ACCT: 9115
PROJ: B80116.00

FROM: Richard A. Kagel, Ph.D. RAK
Laboratory Director by AB 3/27/19

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT B80116.00

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
1001-SG-01-0.5-1.0	SOIL	3/20/2019	14:10	180840
1001-SG-01-2.5-3.0	SOIL	3/20/2019	14:17	180841
1001-SG-02-0.5-1.0	SOIL	3/20/2019	14:55	180842
1001-SG-02-2.5-3.0	SOIL	3/20/2019	15:00	180843
1001-SG-03-0.5-1.0	SOIL	3/20/2019	12:45	180844
1001-SG-03-2.5-3.0	SOIL	3/20/2019	12:50	180845
1001-SG-04-0.5-1.0	SOIL	3/20/2019	13:15	180846
1001-SG-04-2.5-3.0	SOIL	3/20/2019	13:23	180847
1001-SG-06-0.5-1.0	SOIL	3/20/2019	11:20	180848
1001-SG-06-2.5-3.0	SOIL	3/20/2019	11:25	180849
1001-SG-07-0.5-1.0	SOIL	3/20/2019	10:35	180850
1001-SG-07-2.5-3.0	SOIL	3/20/2019	10:45	180851
1001-SG-08-0.5-1.0	SOIL	3/20/2019	9:44	180852
1001-SG-08-2.5-3.0	SOIL	3/20/2019	9:59	180853
1001-SG-09-0.5-1.0	SOIL	3/20/2019	8:45	180854
1001-SG-09-2.5-3.0	SOIL	3/20/2019	8:48	180855

The above listed sample group was received on 3/21/2019 and tested as requested on the chain of custody document.

Please call me if you have any questions or need further information.
Thank you for this opportunity to be of service.

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE ID: 1001-SG-01-0.5-1.0
LAB NO: 180840
DATE SAMPLED: 03/20/2019
TIME SAMPLED: 14:10
BATCH NO: 031119S1
DATE EXTRACTED: 03/25/2019
DATE ANALYZED: 03/26/2019

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.00	ND
BETA-BHC	319-85-7	2.00	ND
GAMMA-BHC (LINDANE)	58-89-9	2.00	ND
HEPTACHLOR	76-44-8	2.00	ND
DELTA-BHC	319-86-8	2.00	ND
ALDRIN	309-00-2	2.00	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.00	ND
ENDOSULFAN I	959-98-8	2.00	ND
4,4'-DDE	72-55-9	2.00	6.20
DIELDRIN	60-57-1	2.00	ND
ENDRIN	72-20-8	2.00	ND
4,4'-DDD	72-54-8	2.00	ND
ENDOSULFAN II	33213-65-9	2.00	ND
4,4'-DDT	50-29-3	2.00	ND
ENDRIN ALDEHYDE	7421-93-4	2.00	ND
ENDOSULFAN SULFATE	1031-07-8	2.00	ND
ENDRIN KETONE	53494-70-5	2.00	ND
METHOXYCHLOR	72-43-5	2.00	ND
CHLORDANE	57-74-9	2.00	14.2
TOXAPHENE	8001-35-2	12.5	ND

SURROGATE RECOVERY	%
TCMX	83
DCBP	82

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: AB
DATE: 3/27/19

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE ID: 1001-SG-03-0.5-1.0
LAB NO: 180844
DATE SAMPLED: 03/20/2019
TIME SAMPLED: 12:45
BATCH NO: 031119S1
DATE EXTRACTED: 03/25/2019
DATE ANALYZED: 03/26/2019

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.00	ND
BETA-BHC	319-85-7	2.00	ND
GAMMA-BHC (LINDANE)	58-89-9	2.00	ND
HEPTACHLOR	76-44-8	2.00	ND
DELTA-BHC	319-86-8	2.00	ND
ALDRIN	309-00-2	2.00	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.00	ND
ENDOSULFAN I	959-98-8	2.00	ND
4,4'-DDE	72-55-9	2.00	9.07
DIELDRIN	60-57-1	2.00	9.80
ENDRIN	72-20-8	2.00	ND
4,4'-DDD	72-54-8	2.00	4.56
ENDOSULFAN II	33213-65-9	2.00	ND
4,4'-DDT	50-29-3	2.00	6.92
ENDRIN ALDEHYDE	7421-93-4	2.00	ND
ENDOSULFAN SULFATE	1031-07-8	2.00	ND
ENDRIN KETONE	53494-70-5	2.00	ND
METHOXYCHLOR	72-43-5	2.00	ND
CHLORDANE	57-74-9	2.00	11.9
TOXAPHENE	8001-35-2	12.5	ND

SURROGATE RECOVERY	%
TCMX	93
DCBP	75

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: AB
DATE: 3/27/19

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE ID: 1001-SG-04-0.5-1.0
LAB NO: 180846
DATE SAMPLED: 03/20/2019
TIME SAMPLED: 13:15
BATCH NO: 031119S1
DATE EXTRACTED: 03/25/2019
DATE ANALYZED: 03/26/2019

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.00	ND
BETA-BHC	319-85-7	2.00	ND
GAMMA-BHC (LINDANE)	58-89-9	2.00	ND
HEPTACHLOR	76-44-8	2.00	ND
DELTA-BHC	319-86-8	2.00	ND
ALDRIN	309-00-2	2.00	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.00	ND
ENDOSULFAN I	959-98-8	2.00	ND
4,4'-DDE	72-55-9	2.00	5.31
DIELDRIN	60-57-1	2.00	11.9
ENDRIN	72-20-8	2.00	ND
4,4'-DDD	72-54-8	2.00	ND
ENDOSULFAN II	33213-65-9	2.00	ND
4,4'-DDT	50-29-3	2.00	ND
ENDRIN ALDEHYDE	7421-93-4	2.00	ND
ENDOSULFAN SULFATE	1031-07-8	2.00	ND
ENDRIN KETONE	53494-70-5	2.00	ND
METHOXYCHLOR	72-43-5	2.00	ND
CHLORDANE	57-74-9	2.00	9.81
TOXAPHENE	8001-35-2	12.5	ND

SURROGATE RECOVERY	%
TCMX	94
DCBP	97

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: AB
DATE: 3/27/19

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE ID: 1001-SG-06-0.5-1.0
LAB NO: 180848
DATE SAMPLED: 03/20/2019
TIME SAMPLED: 11:20
BATCH NO: 031119S1
DATE EXTRACTED: 03/25/2019
DATE ANALYZED: 03/26/2019

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.00	ND
BETA-BHC	319-85-7	2.00	ND
GAMMA-BHC (LINDANE)	58-89-9	2.00	ND
HEPTACHLOR	76-44-8	2.00	ND
DELTA-BHC	319-86-8	2.00	ND
ALDRIN	309-00-2	2.00	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.00	ND
ENDOSULFAN I	959-98-8	2.00	ND
4,4'-DDE	72-55-9	2.00	10.4
DIELDRIN	60-57-1	2.00	10.9
ENDRIN	72-20-8	2.00	ND
4,4'-DDD	72-54-8	2.00	3.06
ENDOSULFAN II	33213-65-9	2.00	ND
4,4'-DDT	50-29-3	2.00	ND
ENDRIN ALDEHYDE	7421-93-4	2.00	ND
ENDOSULFAN SULFATE	1031-07-8	2.00	ND
ENDRIN KETONE	53494-70-5	2.00	ND
METHOXYCHLOR	72-43-5	2.00	ND
CHLORDANE	57-74-9	2.00	17.8
TOXAPHENE	8001-35-2	12.5	ND

SURROGATE RECOVERY	%
TCMX	83
DCBP	87

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: AB
DATE: 3/27/19

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE ID: 1001-SG-07-0.5-1.0
LAB NO: 180850
DATE SAMPLED: 03/20/2019
TIME SAMPLED: 10:35
BATCH NO: 031119S1
DATE EXTRACTED: 03/25/2019
DATE ANALYZED: 03/26/2019

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.00	ND
BETA-BHC	319-85-7	2.00	ND
GAMMA-BHC (LINDANE)	58-89-9	2.00	ND
HEPTACHLOR	76-44-8	2.00	ND
DELTA-BHC	319-86-8	2.00	ND
ALDRIN	309-00-2	2.00	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.00	ND
ENDOSULFAN I	959-98-8	2.00	2.21
4,4'-DDE	72-55-9	2.00	12.0
DIELDRIN	60-57-1	2.00	9.73
ENDRIN	72-20-8	2.00	ND
4,4'-DDD	72-54-8	2.00	3.33
ENDOSULFAN II	33213-65-9	2.00	ND
4,4'-DDT	50-29-3	2.00	2.09
ENDRIN ALDEHYDE	7421-93-4	2.00	ND
ENDOSULFAN SULFATE	1031-07-8	2.00	ND
ENDRIN KETONE	53494-70-5	2.00	ND
METHOXYCHLOR	72-43-5	2.00	ND
CHLORDANE	57-74-9	2.00	22.2
TOXAPHENE	8001-35-2	12.5	ND

SURROGATE RECOVERY	%
TCMX	88
DCBP	90

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: HB
DATE: 3/27/19

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE ID: 1001-SG-08-0.5-1.0
LAB NO: 180852
DATE SAMPLED: 03/20/2019
TIME SAMPLED: 9:44
BATCH NO: 031119S1
DATE EXTRACTED: 03/25/2019
DATE ANALYZED: 03/26/2019

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.00	ND
BETA-BHC	319-85-7	2.00	ND
GAMMA-BHC (LINDANE)	58-89-9	2.00	ND
HEPTACHLOR	76-44-8	2.00	ND
DELTA-BHC	319-86-8	2.00	ND
ALDRIN	309-00-2	2.00	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.00	ND
ENDOSULFAN I	959-98-8	2.00	ND
4,4'-DDE	72-55-9	2.00	4.02
DIELDRIN	60-57-1	2.00	12.6
ENDRIN	72-20-8	2.00	ND
4,4'-DDD	72-54-8	2.00	ND
ENDOSULFAN II	33213-65-9	2.00	ND
4,4'-DDT	50-29-3	2.00	ND
ENDRIN ALDEHYDE	7421-93-4	2.00	ND
ENDOSULFAN SULFATE	1031-07-8	2.00	ND
ENDRIN KETONE	53494-70-5	2.00	ND
METHOXYCHLOR	72-43-5	2.00	ND
CHLORDANE	57-74-9	2.00	3.22
TOXAPHENE	8001-35-2	12.5	ND

SURROGATE RECOVERY	%
TCMX	92
DCBP	92

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: AB
DATE: 3/27/19

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE ID: 1001-SG-09-0.5-1.0
LAB NO: 180854
DATE SAMPLED: 03/20/2019
TIME SAMPLED: 8:45
BATCH NO: 031119S1
DATE EXTRACTED: 03/25/2019
DATE ANALYZED: 03/26/2019

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.00	ND
BETA-BHC	319-85-7	2.00	ND
GAMMA-BHC (LINDANE)	58-89-9	2.00	ND
HEPTACHLOR	76-44-8	2.00	ND
DELTA-BHC	319-86-8	2.00	ND
ALDRIN	309-00-2	2.00	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.00	ND
ENDOSULFAN I	959-98-8	2.00	2.33
4,4'-DDE	72-55-9	2.00	4.27
DIELDRIN	60-57-1	2.00	10.4
ENDRIN	72-20-8	2.00	ND
4,4'-DDD	72-54-8	2.00	2.65
ENDOSULFAN II	33213-65-9	2.00	ND
4,4'-DDT	50-29-3	2.00	ND
ENDRIN ALDEHYDE	7421-93-4	2.00	ND
ENDOSULFAN SULFATE	1031-07-8	2.00	ND
ENDRIN KETONE	53494-70-5	2.00	ND
METHOXYCHLOR	72-43-5	2.00	ND
CHLORDANE	57-74-9	2.00	22.2
TOXAPHENE	8001-35-2	12.5	ND

SURROGATE RECOVERY	%
TCMX	83
DCBP	91

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: AB
DATE: 3/27/19

K PRIME, INC.
LABORATORY REPORT

METHOD: TOTAL ARSENIC
REFERENCE: EPA 3050B/6020A

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE TYPE: SOIL
UNITS: mg/kg

SAMPLE ID	LAB ID	BATCH #	DATE SAMPLED	DATE ANALYZED	REPORTING LIMIT	SAMPLE CONC
1001-SG-01-0.5-1.0	180840	031919S1	03/20/2019	03/25/2019	2.50	2.95
1001-SG-03-0.5-1.0	180844	031919S1	03/20/2019	03/25/2019	2.50	ND
1001-SG-04-0.5-1.0	180846	031919S1	03/20/2019	03/25/2019	2.50	ND
1001-SG-06-0.5-1.0	180848	031919S1	03/20/2019	03/25/2019	2.50	ND
1001-SG-07-0.5-1.0	180850	031919S1	03/20/2019	03/25/2019	2.50	ND
1001-SG-08-0.5-1.0	180852	031919S1	03/20/2019	03/25/2019	2.50	3.31
1001-SG-09-0.5-1.0	180854	031919S1	03/20/2019	03/25/2019	2.50	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: (M)
DATE: 3/25/19

K PRIME, INC.
LABORATORY REPORT

METHOD: TOTAL LEAD
REFERENCE: EPA 3050B/6020A

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE TYPE: SOIL
UNITS: mg/kg

SAMPLE ID	LAB ID	BATCH #	DATE SAMPLED	DATE ANALYZED	REPORTING LIMIT	SAMPLE CONC
1001-SG-01-0.5-1.0	180840	031919S1	03/20/2019	03/25/2019	2.50	11.0
1001-SG-03-0.5-1.0	180844	031919S1	03/20/2019	03/25/2019	2.50	12.3
1001-SG-04-0.5-1.0	180846	031919S1	03/20/2019	03/25/2019	2.50	8.51
1001-SG-06-0.5-1.0	180848	031919S1	03/20/2019	03/25/2019	2.50	13.0
1001-SG-07-0.5-1.0	180850	031919S1	03/20/2019	03/25/2019	2.50	13.4
1001-SG-08-0.5-1.0	180852	031919S1	03/20/2019	03/25/2019	2.50	23.0
1001-SG-09-0.5-1.0	180854	031919S1	03/20/2019	03/25/2019	2.50	11.6

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: (N)
DATE: 3/25/19

K PRIME, INC.
LABORATORY BATCH QC REPORT

METHOD BLANK ID: B031119S1
BATCH NO: 031119S1
DATE EXTRACTED: 03/11/2019
DATE ANALYZED: 03/14/2019

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.00	ND
BETA-BHC	319-85-7	2.00	ND
GAMMA-BHC (LINDANE)	58-89-9	2.00	ND
HEPTACHLOR	76-44-8	2.00	ND
DELTA-BHC	319-86-8	2.00	ND
ALDRIN	309-00-2	2.00	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.00	ND
ENDOSULFAN I	959-98-8	2.00	ND
4,4'-DDE	72-55-9	2.00	ND
DIELDRIN	60-57-1	2.00	ND
ENDRIN	72-20-8	2.00	ND
4,4'-DDD	72-54-8	2.00	ND
ENDOSULFAN II	33213-65-9	2.00	ND
4,4'-DDT	50-29-3	2.00	ND
ENDRIN ALDEHYDE	7421-93-4	2.00	ND
ENDOSULFAN SULFATE	1031-07-8	2.00	ND
METHOXYCHLOR	72-43-5	2.00	ND
CHLORDANE	57-74-9	2.00	ND
TOXAPHENE	8001-35-2	12.5	ND

SURROGATE RECOVERY	%
TCMX	66
DCBP	67

NOTES:
ND - NOT DETECTED ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

K PRIME, INC.
LABORATORY BATCH QC REPORT

SAMPLE ID: B031119S1
SPIKE ID: L031119S1
DUPLICATE ID: D031119S1
BATCH NO: 031119S1
DATE EXTRACTED: 03/11/2019
DATE ANALYZED: 03/14/2019

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

ACCURACY (MATRIX SPIKE)

COMPOUND NAME	SPIKE ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
GAMMA-BHC (LINDANE)	125	ND	98.0	78	50-150
HEPTACHLOR	125	ND	92.9	74	50-150
ALDRIN	125	ND	101	80	50-150
DIELDRIN	125	ND	109	87	50-150
ENDRIN	125	ND	103	83	50-150
DDT	125	ND	144	115	50-150

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
GAMMA-BHC (LINDANE)	2.00	98.0	93.7	4.4	±40
HEPTACHLOR	2.00	92.9	87.8	5.6	±40
ALDRIN	2.00	101	100	0.5	±40
DIELDRIN	2.00	109	105	4.0	±40
ENDRIN	2.00	103	110	6.0	±40
DDT	2.00	144	167	14.8	±40

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

K PRIME, INC.

LABORATORY BATCH QC REPORT

SAMPLE ID: L031919S1
DUPLICATE ID: D031919S1
METHOD BLANK ID: B032219S1
BATCH #: 031919S1
DATE ANALYZED: 03/19/2019

METHOD: TOTAL METALS BY ICP/MS
REFERENCE: EPA 3050B/6020A

SAMPLE TYPE: SOIL
UNITS: mg/kg

ELEMENT		MB mg/kg	SA mg/kg	SR mg/kg	SP mg/kg	SPD mg/kg	SP %R	RPD %
ARSENIC	As	<2.50	25.0	0.0	23.7	23.2	95	2.2
LEAD	Pb	<2.50	25.0	0.0	25.0	24.8	100	0.8

NOTES:
ND: NOT DETECTED
MB: METHOD BLANK
SA: SPIKE ADDED
SR: SAMPLE RESULT
SP: SPIKE RESULT
SPD: SPIKE DUPLICATE RESULT
SP(%R): SPIKE % RECOVERY
RPD: RELATIVE PERCENT DIFFERENCE
NC: NOT CALCULATED DUE TO RELATIVE CONCENTRATIONS

EKI Environment & Water, Inc.

CHAIN OF CUSTODY RECORD

9115

Formerly known as Erler & Kalinowski, Inc. 577 Airport Blvd. Suite 500, Burlingame CA 94010-2023 www.ekiconsult.com PHONE: 650-292-9100 FAX: 650-552-9012

Project Name: The Residences at Shoreline Gateway

Project No.: B80116.00

Location: Mountain View, CA

Sampled By: Jacki Lee / Priscilla DeJesus

Reporting:
Electronic Format: NA Hard Copy Format: PDF
EPA Data Report Level: II Report as: Dry Weight
Please report results to the following people:
(1) Data Archive: labs@ekiconsult.com
(2) Michelle King: mking@ekiconsult.com
(3) James Yoon: jyoon@ekiconsult.com
(4) Jacki Lee: jlee@ekiconsult.com

Laboratory:
K-Prime Laboratories, Inc.
3621 Westwind Boulevard
Santa Rosa, CA, USA 95403
(707) 527-7574

EKI COC No.: (YYYYMMDD-#)

Revision: _____ (A, B, C, D, etc.)
Date: By:

Field Sample Identification	Lab Sample No.	Date	Time	Matrix	No./Type of Containers	Method No. EPA 8081A Analyte Group Organochlorine Pesticides	EPA 6020 Arsenic & Lead	HOLD	* EXPECTED TURN-AROUND TIME	REMARKS
1001-SG-01-0.5-1.0	180840	3/20/19	14:10	soil	1 - 8 oz. jar	x	x		STANDARD	
1001-SG-01-2.5-3.0	180841	3/20/19	14:17	soil	1 - 8 oz. jar			x		Hold per
1001-SG-02-0.5-1.0	180842	3/20/19	14:55	soil	1 - 8 oz. jar	x per	x per	X	~~STANDARD~~	HOLD
1001-SG-02-2.5-3.0	180843	3/20/19	15:00	soil	1 - 8 oz. jar			x		HOLD
1001-SG-03-0.5-1.0	180844	~~3/20/19~~	12:45	soil	1 - 8 oz. jar	x	x		STANDARD	
1001-SG-03-2.5-3.0	180845	3/20/19	12:50	soil	1 - 8 oz. jar			x		*5 DAY TAT
1001-SG-04-0.5-1.0	180846	3/20/19	13:15	soil	1 - 8 oz. jar	x	x		STANDARD	per Priscilla
1001-SG-04-2.5-3.0	180847	3/20/19	13:23	soil	1 - 8 oz. jar			x		DeJesus,
1001-SG-06-0.5-1.0	180848	3/20/19	11:20	soil	1 - 8 oz. jar	x	x		STANDARD	3/21/19 gd
1001-SG-06-2.5-3.0	180849	3/20/19	11:25	soil	1 - 8 oz. jar			x		
1001-SG-07-0.5-1.0	180850	3/20/19	10:35	soil	1 - 8 oz. jar	x	x		STANDARD	
1001-SG-07-2.5-3.0	180851	3/20/19	10:45	soil	1 - 8 oz. jar			x		
1001-SG-08-0.5-1.0	180852	3/20/19	9:44	soil	1 - 8 oz. jar	x	x		STANDARD	
1001-SG-08-2.5-3.0	180853	3/20/19	9:59	soil	1 - 8 oz. jar			x		
1001-SG-09-0.5-1.0	180854	3/20/19	8:45	soil	1 - 8 oz. jar	x	x		STANDARD	
1001-SG-09-2.5-3.0	180855	3/20/19	3:48	soil	1 - 8 oz. jar			x		

Special Instructions:

Questions regarding COC, contact sampler, Jacki Lee (650) 292-9136 or Priscilla DeJesus (650) 292-9104

Relinquished by: Priscilla DeJesus	(Signature/Affiliation)	Date 03/21/2019	Time 1640	**Received by:** (Signature/Affiliation or Carrier/Air Bill No.)
Relinquished by:	(Signature/Affiliation)	Date 03/21/2019	Time 19:15	**Received by:** (Signature/Affiliation) Armando Barbosa
Relinquished by:	(Signature/Affiliation)	Date	Time	**Received by:** (Signature/Affiliation)

EKI Environment & Water, Inc.

CHAIN OF CUSTODY RECORD

9115

Formerly known as Erler & Kalinowski, Inc. 577 Airport Blvd. Suite 500, Burlingame CA 94010-2023 www.ekiconsult.com PHONE: 650-292-9100 FAX: 650-552-9012

Project Name: The Residences at Shoreline Gateway

Project No.: B80116.00

Location: Mountain View, CA

Sampled By: Jacki Lee / Priscilla DeJesus

Reporting:
Electronic Format: NA Hard Copy Format: PDF
EPA Data Report Level: II Report as: Dry Weight
Please report results to the following people:
(1) Data Archive: labs@ekiconsult.com
(2) Michelle King: mking@ekiconsult.com
(3) James Yoon: jyoon@ekiconsult.com
(4) Jacki Lee: jlee@ekiconsult.com

Laboratory:
K-Prime Laboratories, Inc.
3621 Westwind Boulevard
Santa Rosa, CA, USA 95403
(707) 527-7574

EKI COC No.: (YYYYMMDD-#)

Revision: _____ (A, B, C, D, etc.) Date: By:

ANALYSES REQUESTED

Field Sample Identification	Lab Sample No.	Date	Time	Matrix	No./Type of Containers	Method No. / Analyte Group: EPA 8081A Organochlorine Pesticides	EPA 6020 Arsenic & Lead	HOLD	EXPECTED TURN-AROUND TIME	REMARKS
1001-SG-01-0.5-1.0	180840	3/20/19	14:10	soil	1 - 8 oz. jar	x	x		STANDARD	
1001-SG-01-2.5-3.0	180841	3/20/19	14:17	soil	1 - 8 oz. jar			x		HOLD
1001-SG-02-0.5-1.0	180842	3/20/19	14:55	soil	1 - 8 oz. jar	x	x	X	~~STANDARD~~	HOLD
1001-SG-02-2.5-3.0	180843	3/20/19	15:00	soil	1 - 8 oz. jar			x		HOLD
1001-SG-03-0.5-1.0	180844	~~3/20/19~~	12:45	soil	1 - 8 oz. jar	x	x		STANDARD	
1001-SG-03-2.5-3.0	180845	3/20/19	12:50	soil	1 - 8 oz. jar			x		
1001-SG-04-0.5-1.0	180846	3/20/19	13:15	soil	1 - 8 oz. jar	x	x		STANDARD	
1001-SG-04-2.5-3.0	180847	3/20/19	13:23	soil	1 - 8 oz. jar			x		
1001-SG-06-0.5-1.0	180848	3/20/19	11:20	soil	1 - 8 oz. jar	x	x		STANDARD	
1001-SG-06-2.5-3.0	180849	3/20/19	11:25	soil	1 - 8 oz. jar			x		
1001-SG-07-0.5-1.0	180850	3/20/19	10:35	soil	1 - 8 oz. jar	x	x		STANDARD	
1001-SG-07-2.5-3.0	180851	3/20/19	10:45	soil	1 - 8 oz. jar			x		
1001-SG-08-0.5-1.0	180852	3/20/19	9:44	soil	1 - 8 oz. jar	x	x		STANDARD	
1001-SG-08-2.5-3.0	180853	3/20/19	9:59	soil	1 - 8 oz. jar			x		
1001-SG-09-0.5-1.0	180854	3/20/19	8:45	soil	1 - 8 oz. jar	x	x		STANDARD	
1001-SG-09-2.5-3.0	180855	3/20/19	3:48	soil	1 - 8 oz. jar			x		

Special Instructions:

Questions regarding COC, contact sampler, Jacki Lee (650) 292-9136 or Priscilla DeJesus (650) 292-9104

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation or Carrier/Air Bill No.)
Priscilla DeJesus	03/21/2019	1690	
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)
RESWE	03/21/2019	19:15	Amanda Bansose
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

TRANSMITTAL

DATE: 3/27/2019

TO: MS. MICHELLE KING
MR. JAMES YOON
MS. JACKI LEE
EKI ENVIRONMENT & WATER, INC.
577 AIRPORT BLVD, STE 500
BURLINGAME, CA 94010

Phone: 650-292-9100
Email: labs@ekiconsult.com
mkking@ekiconsult.com
jyoon@ekiconsult.com
jlee@ekiconsult.com

ACCT: 9115
PROJ: B80116.00

FROM: Richard A. Kagel, Ph.D. RAK
Laboratory Director 64 AB
3/27/19

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT B80116.00

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
1001-BH-07-0.5-1.0	SOIL	3/21/2019	15:41	180856
1001 BH-07-2.5-3.0	SOIL	3/21/2019	15:47	180857

The above listed sample group was received on 3/21/2019 and tested as requested on the chain of custody document.

Please call me if you have any questions or need further information.
Thank you for this opportunity to be of service.

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE ID: 1001-BH-07-0.5-1.0
LAB NO: 180856
DATE SAMPLED: 03/21/2019
TIME SAMPLED: 15:41
BATCH NO: 031119S1
DATE EXTRACTED: 03/25/2019
DATE ANALYZED: 03/26/2019

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.00	ND
BETA-BHC	319-85-7	2.00	ND
GAMMA-BHC (LINDANE)	58-89-9	2.00	ND
HEPTACHLOR	76-44-8	2.00	ND
DELTA-BHC	319-86-8	2.00	ND
ALDRIN	309-00-2	2.00	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.00	ND
ENDOSULFAN I	959-98-8	2.00	ND
4,4'-DDE	72-55-9	2.00	7.15
DIELDRIN	60-57-1	2.00	11.4
ENDRIN	72-20-8	2.00	ND
4,4'-DDD	72-54-8	2.00	ND
ENDOSULFAN II	33213-65-9	2.00	ND
4,4'-DDT	50-29-3	2.00	ND
ENDRIN ALDEHYDE	7421-93-4	2.00	ND
ENDOSULFAN SULFATE	1031-07-8	2.00	ND
ENDRIN KETONE	53494-70-5	2.00	ND
METHOXYCHLOR	72-43-5	2.00	ND
CHLORDANE	57-74-9	2.00	5.10
TOXAPHENE	8001-35-2	12.5	ND

SURROGATE RECOVERY	%
TCMX	98
DCBP	94

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: AB
DATE: 3/27/19

K PRIME, INC.
LABORATORY REPORT

METHOD: TOTAL ARSENIC
REFERENCE: EPA 3050B/6020A

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE TYPE: SOIL
UNITS: mg/kg

SAMPLE ID	LAB ID	BATCH #	DATE SAMPLED	DATE ANALYZED	REPORTING LIMIT	SAMPLE CONC
1001-BH-07-0.5-1.0	180856	031919S1	03/21/2019	03/25/2019	2.50	2.52

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: (N)

DATE: 3/25/19

K PRIME, INC.
LABORATORY REPORT

METHOD: TOTAL LEAD
REFERENCE: EPA 3050B/6020A

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE TYPE: SOIL
UNITS: mg/kg

SAMPLE ID	LAB ID	BATCH #	DATE SAMPLED	DATE ANALYZED	REPORTING LIMIT	SAMPLE CONC
1001-BH-07-0.5-1.0	180856	031919S1	03/21/2019	03/25/2019	2.50	13.6

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: (N)

DATE: 3/25/19

K PRIME, INC.
LABORATORY BATCH QC REPORT

METHOD BLANK ID: B031119S1
BATCH NO: 031119S1
DATE EXTRACTED: 03/11/2019
DATE ANALYZED: 03/14/2019

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.00	ND
BETA-BHC	319-85-7	2.00	ND
GAMMA-BHC (LINDANE)	58-89-9	2.00	ND
HEPTACHLOR	76-44-8	2.00	ND
DELTA-BHC	319-86-8	2.00	ND
ALDRIN	309-00-2	2.00	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.00	ND
ENDOSULFAN I	959-98-8	2.00	ND
4,4'-DDE	72-55-9	2.00	ND
DIELDRIN	60-57-1	2.00	ND
ENDRIN	72-20-8	2.00	ND
4,4'-DDD	72-54-8	2.00	ND
ENDOSULFAN II	33213-65-9	2.00	ND
4,4'-DDT	50-29-3	2.00	ND
ENDRIN ALDEHYDE	7421-93-4	2.00	ND
ENDOSULFAN SULFATE	1031-07-8	2.00	ND
METHOXYCHLOR	72-43-5	2.00	ND
CHLORDANE	57-74-9	2.00	ND
TOXAPHENE	8001-35-2	12.5	ND

SURROGATE RECOVERY	%
TCMX	66
DCBP	67

NOTES:
ND - NOT DETECTED ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

K PRIME, INC.
LABORATORY BATCH QC REPORT

SAMPLE ID: B031119S1
SPIKE ID: L031119S1
DUPLICATE ID: D031119S1
BATCH NO: 031119S1
DATE EXTRACTED: 03/11/2019
DATE ANALYZED: 03/14/2019

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

ACCURACY (MATRIX SPIKE)

COMPOUND NAME	SPIKE ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
GAMMA-BHC (LINDANE)	125	ND	98.0	78	50-150
HEPTACHLOR	125	ND	92.9	74	50-150
ALDRIN	125	ND	101	80	50-150
DIELDRIN	125	ND	109	87	50-150
ENDRIN	125	ND	103	83	50-150
DDT	125	ND	144	115	50-150

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
GAMMA-BHC (LINDANE)	2.00	98.0	93.7	4.4	±40
HEPTACHLOR	2.00	92.9	87.8	5.6	±40
ALDRIN	2.00	101	100	0.5	±40
DIELDRIN	2.00	109	105	4.0	±40
ENDRIN	2.00	103	110	6.0	±40
DDT	2.00	144	167	14.8	±40

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

K PRIME, INC.

LABORATORY BATCH QC REPORT

SAMPLE ID: L031919S1
DUPLICATE ID: D031919S1
METHOD BLANK ID: B032219S1
BATCH #: 031919S1
DATE ANALYZED: 03/19/2019

METHOD: TOTAL METALS BY ICP/MS
REFERENCE: EPA 3050B/6020A

SAMPLE TYPE: SOIL
UNITS: mg/kg

ELEMENT		MB mg/kg	SA mg/kg	SR mg/kg	SP mg/kg	SPD mg/kg	SP %R	RPD %
ARSENIC	As	<2.50	25.0	0.0	23.7	23.2	95	2.2
LEAD	Pb	<2.50	25.0	0.0	25.0	24.8	100	0.8

NOTES:
ND: NOT DETECTED
MB: METHOD BLANK
SA: SPIKE ADDED
SR: SAMPLE RESULT
SP: SPIKE RESULT
SPD: SPIKE DUPLICATE RESULT
SP(%R): SPIKE % RECOVERY
RPD: RELATIVE PERCENT DIFFERENCE
NC: NOT CALCULATED DUE TO RELATIVE CONCENTRATIONS

EKI Environment & Water, Inc. **CHAIN OF CUSTODY RECORD** 9115 PAGE 1 OF 1

Formerly known as Erler & Kalinowski, Inc. 577 Airport Blvd. Suite 500, Burlingame CA 94010-2023 www.ekiconsult.com PHONE: 650-292-9100 FAX: 650-552-9012

Project Name: The Residences at Shoreline Gateway
Project No.: B80116.00
Location: Mountain View, CA
Sampled By: Jacki Lee / Priscilla DeJesus
Laboratory: K-Prime Laboratories, Inc.
3621 Westwind Boulevard
Santa Rosa, CA, USA 95403
(707) 527-7574

Reporting:
Electronic Format: NA Hard Copy Format: PDF
EPA Data Report Level: II Report as: Dry Weight
Please report results to the following people:
(1) Data Archive: labs@ekiconsult.com
(2) Michelle King: mkking@ekiconsult.com
(3) James Yoon: jyoon@ekiconsult.com
(4) Jacki Lee: jlee@ekiconsult.com

EKI COC No.: (YYYYMMDD-#)

Revision: _____ (A, B, C, D, etc.) Date: By:

ANALYSES REQUESTED

Field Sample Identification	Lab Sample No.	Date	Time	Matrix	No./Type of Containers	EPA 8081A Organochlorine Pesticides	EPA 6020 Arsenic & Lead	EPA 8082 PCBs	HOLD	* EXPECTED TURN-AROUND TIME	REMARKS
~~1001-BH-01-0.5-1.0~~				soil	1 - 8 oz. jar	x	x			STANDARD	NO Sample
~~1001-BH-01-2.5-3.0~~				soil	1 - 8 oz. jar				x		NO Sample
~~1001-BH-02-0.5-1.0~~				soil	1 - 8 oz. jar	x	x			STANDARD	NO Sample
~~1001-BH-02-2.5-3.0~~				soil	1 - 8 oz. jar				x		NO Sample
~~1001-BH-03-0.5-1.0~~				soil	1 - 8 oz. jar	x	x			STANDARD	NO Sample
~~1001-BH-03-2.5-3.0~~				soil	1 - 8 oz. jar				x		NO Sample
~~1001-BH-04-0.5-1.0~~				soil	1 - 8 oz. jar	x	x			STANDARD	NO Sample
~~1001-BH-04-2.5-3.0~~				soil	1 - 8 oz. jar				x		NO Sample
~~1001-BH-05-0.5-1.0~~				soil	1 - 8 oz. jar	x	x			STANDARD	NO Sample
~~1001-BH-05-2.5-3.0~~				soil	1 - 8 oz. jar				x		NO Sample
~~1001-BH-06-0.5-1.0~~				soil	1 - 8 oz. jar			x		STANDARD	NO Sample
~~1001-BH-06-2.5-3.0~~				soil	1 - 8 oz. jar			x		STANDARD	NO Sample
1001-BH-07-0.5-1.0	180856		1541	soil	1-8oz. jar	X	X			STANDARD	
1001 BH-07-2.5-3.0	180857		1547	soil	1-8oz. jar				X		* 5DAY per Priscilla De Jesus. 3/25/19 GG

Special Instructions:
Questions regarding COC, contact sampler, Jacki Lee (650) 292-9136 or Priscilla DeJesus (650) 292-9104

Relinquished by:	(Signature/Affiliation) EKI	Date 03/21/2019	Time 16:40	**Received by:** (Signature/Affiliation or Carrier/Air Bill No.)	
Relinquished by:	(Signature/Affiliation) RESCUE	Date 03/21/2019	Time 19:15	**Received by:** (Signature/Affiliation) Aminda Barajas	
Relinquished by:	(Signature/Affiliation)	Date	Time	**Received by:** (Signature/Affiliation)	

N. Shoreline COCs v2.xlsx

EKI Environment & Water, Inc.

CHAIN OF CUSTODY RECORD

9115

Formerly known as Erler & Kalinowski, Inc. 577 Airport Blvd. Suite 500, Burlingame CA 94010-2023 www.ekiconsult.com PHONE: 650-292-9100 FAX: 650-552-9012

Project Name: The Residences at Shoreline Gateway

Project No.: B80116.00

Location: Mountain View, CA

Sampled By: Jacki Lee / Priscilla DeJesus

Reporting:
Electronic Format: NA Hard Copy Format: PDF
EPA Data Report Level: II Report as: Dry Weight
Please report results to the following people:
(1) Data Archive: labs@ekiconsult.com
(2) Michelle King: mking@ekiconsult.com
(3) James Yoon: jyoon@ekiconsult.com
(4) Jacki Lee: jlee@ekiconsult.com

Laboratory:
K-Prime Laboratories, Inc.
3621 Westwind Boulevard
Santa Rosa, CA, USA 95403
(707) 527-7574

EKI COC No.: (YYYYMMDD-#)

Revision: _____ (A, B, C, D, etc.) Date: By:

ANALYSES REQUESTED

Field Sample Identification	Lab Sample No.	Date	Time	Matrix	No./Type of Containers	Method No. / Analyte Group: EPA 8081A Organochlorine Pesticides	EPA 6020 Arsenic & Lead	EPA 8082 PCBs	HOLD	EXPECTED TURN-AROUND TIME	REMARKS
~~1001-BH-01-0.5-1.0~~				soil	1 - 8 oz. jar	x	x			STANDARD	NO Sample
~~1001-BH-01-2.5-3.0~~				soil	1 - 8 oz. jar				x		NO Sample
~~1001-BH-02-0.5-1.0~~				soil	1 - 8 oz. jar	x	x			STANDARD	NO Sample
~~1001-BH-02-2.5-3.0~~				soil	1 - 8 oz. jar				x		NO Sample
1001-BH-03-0.5-1.0				soil	1 - 8 oz. jar	x	x			STANDARD	NO Sample
~~1001-BH-03-2.5-3.0~~				soil	1 - 8 oz. jar				x		NO Sample
~~1001-BH-04-0.5-1.0~~				soil	1 - 8 oz. jar	x	x			STANDARD	NO Sample
~~1001-BH-04-2.5-3.0~~				soil	1 - 8 oz. jar				x		NO Sample
1001-BH-05-0.5-1.0				soil	1 - 8 oz. jar	x	x			STANDARD	NO Sample
~~1001-BH-05-2.5-3.0~~				soil	1 - 8 oz. jar				x		NO Sample
1001-BH-06-0.5-1.0				soil	1 - 8 oz. jar			x		STANDARD	NO Sample
~~1001-BH-06-2.5-3.0~~				soil	1 - 8 oz. jar			x		STANDARD	NO Sample
1001-BH-07-0.5-1.0	180856		1541	soil	1-8oz. jar	X	X			STANDARD	
1001 BH-07-2.5-3.0	180857		1547	soil	1-8oz. jar				X		

Special Instructions:
Questions regarding COC, contact sampler, Jacki Lee (650) 292-9136 or Priscilla DeJesus (650) 292-9104

	(Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation or Carrier/Air Bill No.)
Relinquished by:	EKI	03/21/2019	16:40	
Relinquished by:	RESCUE	03/21/2019	19:15	Received by: (Signature/Affiliation) Armando Banuelos
Relinquished by:	(Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

TRANSMITTAL

DATE: 3/29/2019

TO: MS. MICHELLE KING
MR. JAMES YOON
MS. JACKIE LEE
EKI ENVIRONMENT & WATER, INC.
577 AIRPORT BLVD, STE 500
BURLINGAME, CA 94010

Phone: 650-292-9100
Email: labs@ekiconsult.com
mkking@ekiconsult.com
jyoon@ekiconsult.com
jlee@ekiconsult.com

ACCT: 9115
PROJ: B80116.00

FROM: Richard A. Kagel, Ph.D. RAK
Laboratory Director by AB
3/29/19

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT B80116.00

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
1001-BH-01-0.5-1.0	SOIL	3/22/2019	9:30	180922
1001-BH-01-2.5-3.0	SOIL	3/22/2019	9:35	180923
1001-BH-02-0.5-1.0	SOIL	3/22/2019	7:45	180924
1001-BH-02-2.5-3.0	SOIL	3/22/2019	7:55	180925
1001-BH-04-0.5-1.0	SOIL	3/22/2019	9:00	180926
1001-BH-04-2.5-3.0	SOIL	3/22/2019	9:05	180927
1001-BH-05-0.5-1.0	SOIL	3/22/2019	8:35	180928
1001-BH-05-2.5-3.0	SOIL	3/22/2019	8:40	180929
1001-BH-06-0.5-1.0	SOIL	3/22/2019	8:05	180930
1001-BH-06-2.5-3.0	SOIL	3/22/2019	8:10	180931
1001-BH-3-0.5-1.0	SOIL	3/23/2019	12:15	180932
1001-BH-3-2.5-3.0	SOIL	3/23/2019	12:30	180933

The above listed sample group was received on 3/25/2019 and tested as requested on the chain of custody document.

Please call me if you have any questions or need further information.
Thank you for this opportunity to be of service.

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE ID: 1001-BH-01-0.5-1.0
LAB NO: 180922
DATE SAMPLED: 03/22/2019
TIME SAMPLED: 9:30
BATCH NO: 031119S1
DATE EXTRACTED: 03/25/2019
DATE ANALYZED: 03/26/2019

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.00	ND
BETA-BHC	319-85-7	2.00	ND
GAMMA-BHC (LINDANE)	58-89-9	2.00	ND
HEPTACHLOR	76-44-8	2.00	ND
DELTA-BHC	319-86-8	2.00	ND
ALDRIN	309-00-2	2.00	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.00	ND
ENDOSULFAN I	959-98-8	2.00	ND
4,4'-DDE	72-55-9	2.00	10.4
DIELDRIN	60-57-1	2.00	ND
ENDRIN	72-20-8	2.00	ND
4,4'-DDD	72-54-8	2.00	2.57
ENDOSULFAN II	33213-65-9	2.00	ND
4,4'-DDT	50-29-3	2.00	ND
ENDRIN ALDEHYDE	7421-93-4	2.00	ND
ENDOSULFAN SULFATE	1031-07-8	2.00	ND
ENDRIN KETONE	53494-70-5	2.00	ND
METHOXYCHLOR	72-43-5	2.00	ND
CHLORDANE	57-74-9	2.00	7.63
TOXAPHENE	8001-35-2	12.5	ND

SURROGATE RECOVERY	%
TCMX	79
DCBP	78

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: AB
DATE: 3/27/19

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE ID: 1001-BH-02-0.5-1.0
LAB NO: 180924
DATE SAMPLED: 03/22/2019
TIME SAMPLED: 7:45
BATCH NO: 031119S1
DATE EXTRACTED: 03/25/2019
DATE ANALYZED: 03/26/2019

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.00	ND
BETA-BHC	319-85-7	2.00	ND
GAMMA-BHC (LINDANE)	58-89-9	2.00	ND
HEPTACHLOR	76-44-8	2.00	ND
DELTA-BHC	319-86-8	2.00	ND
ALDRIN	309-00-2	2.00	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.00	ND
ENDOSULFAN I	959-98-8	2.00	ND
4,4'-DDE	72-55-9	2.00	3.72
DIELDRIN	60-57-1	2.00	ND
ENDRIN	72-20-8	2.00	ND
4,4'-DDD	72-54-8	2.00	ND
ENDOSULFAN II	33213-65-9	2.00	ND
4,4'-DDT	50-29-3	2.00	ND
ENDRIN ALDEHYDE	7421-93-4	2.00	ND
ENDOSULFAN SULFATE	1031-07-8	2.00	ND
ENDRIN KETONE	53494-70-5	2.00	ND
METHOXYCHLOR	72-43-5	2.00	ND
CHLORDANE	57-74-9	2.00	7.29
TOXAPHENE	8001-35-2	12.5	ND

SURROGATE RECOVERY	%
TCMX	102
DCBP	109

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: AB
DATE: 3/27/19

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE ID: 1001-BH-04-0.5-1.0
LAB NO: 180926
DATE SAMPLED: 03/22/2019
TIME SAMPLED: 9:00
BATCH NO: 031119S1
DATE EXTRACTED: 03/25/2019
DATE ANALYZED: 03/26/2019

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.00	ND
BETA-BHC	319-85-7	2.00	ND
GAMMA-BHC (LINDANE)	58-89-9	2.00	ND
HEPTACHLOR	76-44-8	2.00	ND
DELTA-BHC	319-86-8	2.00	ND
ALDRIN	309-00-2	2.00	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.00	ND
ENDOSULFAN I	959-98-8	2.00	ND
4,4'-DDE	72-55-9	2.00	ND
DIELDRIN	60-57-1	2.00	ND
ENDRIN	72-20-8	2.00	ND
4,4'-DDD	72-54-8	2.00	ND
ENDOSULFAN II	33213-65-9	2.00	ND
4,4'-DDT	50-29-3	2.00	ND
ENDRIN ALDEHYDE	7421-93-4	2.00	ND
ENDOSULFAN SULFATE	1031-07-8	2.00	ND
ENDRIN KETONE	53494-70-5	2.00	ND
METHOXYCHLOR	72-43-5	2.00	ND
CHLORDANE	57-74-9	2.00	ND
TOXAPHENE	8001-35-2	12.5	ND

SURROGATE RECOVERY	%
TCMX	94
DCBP	104

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: AB
DATE: 3/27/19

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE ID: 1001-BH-05-0.5-1.0
LAB NO: 180928
DATE SAMPLED: 03/22/2019
TIME SAMPLED: 8:35
BATCH NO: 031119S1
DATE EXTRACTED: 03/25/2019
DATE ANALYZED: 03/26/2019

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.00	ND
BETA-BHC	319-85-7	2.00	ND
GAMMA-BHC (LINDANE)	58-89-9	2.00	ND
HEPTACHLOR	76-44-8	2.00	ND
DELTA-BHC	319-86-8	2.00	ND
ALDRIN	309-00-2	2.00	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.00	ND
ENDOSULFAN I	959-98-8	2.00	ND
4,4'-DDE	72-55-9	2.00	ND
DIELDRIN	60-57-1	2.00	ND
ENDRIN	72-20-8	2.00	ND
4,4'-DDD	72-54-8	2.00	ND
ENDOSULFAN II	33213-65-9	2.00	ND
4,4'-DDT	50-29-3	2.00	ND
ENDRIN ALDEHYDE	7421-93-4	2.00	ND
ENDOSULFAN SULFATE	1031-07-8	2.00	ND
ENDRIN KETONE	53494-70-5	2.00	ND
METHOXYCHLOR	72-43-5	2.00	ND
CHLORDANE	57-74-9	2.00	ND
TOXAPHENE	8001-35-2	12.5	ND

SURROGATE RECOVERY	%
TCMX	84
DCBP	90

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: AB
DATE: 3/27/19

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE ID: 1001-BH-3-0.5-1.0
LAB NO: 180932
DATE SAMPLED: 03/23/2019
TIME SAMPLED: 12:15
BATCH NO: 031119S1
DATE EXTRACTED: 03/25/2019
DATE ANALYZED: 03/26/2019

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.00	ND
BETA-BHC	319-85-7	2.00	ND
GAMMA-BHC (LINDANE)	58-89-9	2.00	ND
HEPTACHLOR	76-44-8	2.00	ND
DELTA-BHC	319-86-8	2.00	ND
ALDRIN	309-00-2	2.00	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.00	ND
ENDOSULFAN I	959-98-8	2.00	ND
4,4'-DDE	72-55-9	2.00	3.67
DIELDRIN	60-57-1	2.00	ND
ENDRIN	72-20-8	2.00	ND
4,4'-DDD	72-54-8	2.00	ND
ENDOSULFAN II	33213-65-9	2.00	ND
4,4'-DDT	50-29-3	2.00	ND
ENDRIN ALDEHYDE	7421-93-4	2.00	ND
ENDOSULFAN SULFATE	1031-07-8	2.00	ND
ENDRIN KETONE	53494-70-5	2.00	ND
METHOXYCHLOR	72-43-5	2.00	ND
CHLORDANE	57-74-9	2.00	6.17
TOXAPHENE	8001-35-2	12.5	ND

SURROGATE RECOVERY	%
TCMX	109
DCBP	92

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: AB
DATE: 3/27/19

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE ID: 1001-BH-06-0.5-1.0
LAB NO: 180930
DATE SAMPLED: 03/22/2019
TIME SAMPLED: 8:05
BATCH NO: 031119S1
DATE EXTRACTED: 03/25/2019
DATE ANALYZED: 03/27/2019

METHOD: POLYCHLORINATED BIPHENYLS
REFERENCE: EPA 3550/8082

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
AROCLOR 1016	12674-11-2	25.0	ND
AROCLOR 1221	11104-28-2	25.0	ND
AROCLOR 1232	11141-16-5	25.0	ND
AROCLOR 1242	53469-21-9	25.0	ND
AROCLOR 1248	12672-29-6	25.0	ND
AROCLOR 1254	11097-69-1	25.0	ND
AROCLOR 1260	11096-82-5	25.0	622

SURROGATE RECOVERY	%
TCMX	84
DCBP	84

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: AB
DATE: 3/27/19

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE ID: 1001-BH-06-2.5-3.0
LAB NO: 180931
DATE SAMPLED: 03/22/2019
TIME SAMPLED: 8:10
BATCH NO: 031119S1
DATE EXTRACTED: 03/25/2019
DATE ANALYZED: 03/27/2019

METHOD: POLYCHLORINATED BIPHENYLS
REFERENCE: EPA 3550/8082

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
AROCLOR 1016	12674-11-2	25.0	ND
AROCLOR 1221	11104-28-2	25.0	ND
AROCLOR 1232	11141-16-5	25.0	ND
AROCLOR 1242	53469-21-9	25.0	ND
AROCLOR 1248	12672-29-6	25.0	ND
AROCLOR 1254	11097-69-1	25.0	ND
AROCLOR 1260	11096-82-5	25.0	ND

SURROGATE RECOVERY	%
TCMX	89
DCBP	78

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: AG
DATE: 3/27/19

K PRIME, INC.
LABORATORY REPORT

METHOD: TOTAL ARSENIC
REFERENCE: EPA 3050B/6020A

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE TYPE: SOIL
UNITS: mg/kg

SAMPLE ID	LAB ID	BATCH #	DATE SAMPLED	DATE ANALYZED	REPORTING LIMIT	SAMPLE CONC
1001-BH-01-0.5-1.0	180922	031919S1	03/22/2019	03/26/2019	2.50	2.67
1001-BH-02-0.5-1.0	180924	031919S1	03/22/2019	03/26/2019	2.50	2.76
1001-BH-04-0.5-1.0	180926	031919S1	03/22/2019	03/26/2019	2.50	ND
1001-BH-05-0.5-1.0	180928	031919S1	03/22/2019	03/26/2019	2.50	ND
1001-BH-3-0.5-1.0	180932	031919S1	03/23/2019	03/26/2019	2.50	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY:

DATE: 3/26/19

K PRIME, INC.
LABORATORY REPORT

METHOD: TOTAL LEAD
REFERENCE: EPA 3050B/6020A

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE TYPE: SOIL
UNITS: mg/kg

SAMPLE ID	LAB ID	BATCH #	DATE SAMPLED	DATE ANALYZED	REPORTING LIMIT	SAMPLE CONC
1001-BH-01-0.5-1.0	180922	031919S1	03/22/2019	03/26/2019	2.50	15.8
1001-BH-02-0.5-1.0	180924	031919S1	03/22/2019	03/26/2019	2.50	14.0
1001-BH-04-0.5-1.0	180926	031919S1	03/22/2019	03/26/2019	2.50	4.37
1001-BH-05-0.5-1.0	180928	031919S1	03/22/2019	03/26/2019	2.50	4.20
1001-BH-3-0.5-1.0	180932	031919S1	03/23/2019	03/26/2019	2.50	10.2

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: (ND)
DATE: 3/26/19

K PRIME, INC.
LABORATORY BATCH QC REPORT

METHOD BLANK ID: B031119S1
BATCH NO: 031119S1
DATE EXTRACTED: 03/11/2019
DATE ANALYZED: 03/14/2019

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.00	ND
BETA-BHC	319-85-7	2.00	ND
GAMMA-BHC (LINDANE)	58-89-9	2.00	ND
HEPTACHLOR	76-44-8	2.00	ND
DELTA-BHC	319-86-8	2.00	ND
ALDRIN	309-00-2	2.00	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.00	ND
ENDOSULFAN I	959-98-8	2.00	ND
4,4'-DDE	72-55-9	2.00	ND
DIELDRIN	60-57-1	2.00	ND
ENDRIN	72-20-8	2.00	ND
4,4'-DDD	72-54-8	2.00	ND
ENDOSULFAN II	33213-65-9	2.00	ND
4,4'-DDT	50-29-3	2.00	ND
ENDRIN ALDEHYDE	7421-93-4	2.00	ND
ENDOSULFAN SULFATE	1031-07-8	2.00	ND
METHOXYCHLOR	72-43-5	2.00	ND
CHLORDANE	57-74-9	2.00	ND
TOXAPHENE	8001-35-2	12.5	ND

SURROGATE RECOVERY	%
TCMX	66
DCBP	67

NOTES:
ND - NOT DETECTED ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

K PRIME, INC.
LABORATORY BATCH QC REPORT

SAMPLE ID: B031119S1
SPIKE ID: L031119S1
DUPLICATE ID: D031119S1
BATCH NO: 031119S1
DATE EXTRACTED: 03/11/2019
DATE ANALYZED: 03/14/2019

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

ACCURACY (MATRIX SPIKE)

COMPOUND NAME	SPIKE ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
GAMMA-BHC (LINDANE)	125	ND	98.0	78	50-150
HEPTACHLOR	125	ND	92.9	74	50-150
ALDRIN	125	ND	101	80	50-150
DIELDRIN	125	ND	109	87	50-150
ENDRIN	125	ND	103	83	50-150
DDT	125	ND	144	115	50-150

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
GAMMA-BHC (LINDANE)	2.00	98.0	93.7	4.4	±40
HEPTACHLOR	2.00	92.9	87.8	5.6	±40
ALDRIN	2.00	101	100	0.5	±40
DIELDRIN	2.00	109	105	4.0	±40
ENDRIN	2.00	103	110	6.0	±40
DDT	2.00	144	167	14.8	±40

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

K PRIME, INC.
LABORATORY BATCH QC REPORT

METHOD BLANK ID: B031119S1
BATCH NO: 031119S1
DATE EXTRACTED: 03/11/2019
DATE ANALYZED: 03/13/2019

METHOD: POLYCHLORINATED BIPHENYLS
REFERENCE: EPA 3550/8082

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
AROCLOR 1016	12674-11-2	25.0	ND
AROCLOR 1221	11104-28-2	25.0	ND
AROCLOR 1232	11141-16-5	25.0	ND
AROCLOR 1242	53469-21-9	25.0	ND
AROCLOR 1248	12672-29-6	25.0	ND
AROCLOR 1254	11097-69-1	25.0	ND
AROCLOR 1260	11096-82-5	25.0	ND

SURROGATE RECOVERY	%
TCMX	69
DCBP	68

NOTES:
ND - NOT DETECTED ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

K PRIME, INC.
LABORATORY BATCH QC REPORT

SAMPLE ID: B031119S1
SPIKE ID: L031119S1
DUPLICATE ID: D031119S1
BATCH NO: 031119S1
DATE EXTRACTED: 03/11/2019
DATE ANALYZED: 03/13/2019

METHOD: POLYCHLORINATED BIPHENYLS
REFERENCE: EPA 3550/8082

SAMPLE TYPE: SOIL
UNITS: ug/Kg

ACCURACY (MATRIX SPIKE)

COMPOUND NAME	SPIKE ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
AROCLOR 1260	625	ND	483	77	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
AROCLOR 1260	25.0	483	441	9.1	±20

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

K PRIME, INC.

LABORATORY BATCH QC REPORT

SAMPLE ID: L031919S1
DUPLICATE ID: D031919S1
METHOD BLANK ID: B032519S1
BATCH #: 031919S1
DATE ANALYZED: 03/19/2019

METHOD: TOTAL METALS BY ICP/MS
REFERENCE: EPA 3050B/6020A

SAMPLE TYPE: SOIL
UNITS: mg/kg

ELEMENT		MB mg/kg	SA mg/kg	SR mg/kg	SP mg/kg	SPD mg/kg	SP %R	RPD %
ARSENIC	As	<2.50	25.0	0.0	23.7	23.2	95	2.2
LEAD	Pb	<2.50	25.0	0.0	25.0	24.8	100	0.8

NOTES:
ND: NOT DETECTED
MB: METHOD BLANK
SA: SPIKE ADDED
SR: SAMPLE RESULT
SP: SPIKE RESULT
SPD: SPIKE DUPLICATE RESULT
SP(%R): SPIKE % RECOVERY
RPD: RELATIVE PERCENT DIFFERENCE
NC: NOT CALCULATED DUE TO RELATIVE CONCENTRATIONS

EKI Environment & Water, Inc.

CHAIN OF CUSTODY RECORD

9115

Formerly known as Erler & Kalinowski, Inc. | 577 Airport Blvd. Suite 500, Burlingame CA 94010-2023 | www.ekiconsult.com | PHONE: 650-292-9100 | FAX: 650-552-9012

Project Name: The Residences at Shoreline Gateway

Project No.: B80116.00

Location: Mountain View, CA

Sampled By: Jacki Lee / Priscilla DeJesus

Laboratory: K-Prime Laboratories, Inc.
3621 Westwind Boulevard
Santa Rosa, CA, USA 95403
(707) 527-7574

Reporting:
Electronic Format: NA Hard Copy Format: PDF
EPA Data Report Level: II Report as: Dry Weight
Please report results to the following people:
(1) Data Archive: labs@ekiconsult.com
(2) Michelle King: mking@ekiconsult.com
(3) James Yoon: jyoon@ekiconsult.com
(4) Jacki Lee: jlee@ekiconsult.com

EKI COC No.: (YYYYMMDD-#) 2019-0322-JAL3

ANALYSES REQUESTED

Field Sample Identification	Lab Sample No.	Date	Time	Matrix	No./Type of Containers	Method No. EPA 8081A / Analyte Group Organochlorine Pesticides	EPA 6020 / Arsenic & Lead	EPA 8082 / PCBs	HOLD	EXPECTED TURN-AROUND TIME	REMARKS
1001-BH-01-0.5-1.0	1900922	3/22/2019	9:30	soil	1 - 8 oz. jar	x	x			~~STANDARD~~ 1	5-day
1001-BH-01-2.5-3.0	1900923	3/22/2019	9:35	soil	1 - 8 oz. jar				x	2	
1001-BH-02-0.5-1.0	1900924	3/22/2019	7:45	soil	1 - 8 oz. jar	x	x			~~STANDARD~~ 2	5-day
1001-BH-02-2.5-3.0	1900925	3/22/2019	7:55	soil	1 - 8 oz. jar				x	2	
1001-BH-04-0.5-1.0	1900926	3/22/2019	9:00	soil	1 - 8 oz. jar	x	x			~~STANDARD~~	5-day
1001-BH-04-2.5-3.0	1900927	3/22/2019	9:05	soil	1 - 8 oz. jar				x	2	
1001-BH-05-0.5-1.0	1900928	3/22/2019	8:35	soil	1 - 8 oz. jar	x	x			~~STANDARD~~	5-day
1001-BH-05-2.5-3.0	1900929	3/22/2019	8:40	soil	1 - 8 oz. jar				x	2	
1001-BH-06-0.5-1.0	1900930	3/22/2019	8:05	soil	1 - 8 oz. jar			x		~~STANDARD~~	5-day
1001-BH-06-2.5-3.0	1900931	3/22/2019	8:10	soil	1 - 8 oz. jar			x		~~STANDARD~~ 2	5-day
1001-BH-3-0.5-1.0	1900932	3/23/19	12:15	SOIL	"	X	X			~~STD.~~ 2D	5-day
1001-BH-3-2.5-3.0	1900933	3/23/19	12:30	SOIL	"				X		

Special Instructions:

Questions regarding COC, contact sampler, Jacki Lee (650) 292-9136 or Priscilla DeJesus (650) 292-9104

Revision: _____ (A, B, C, D, etc.) Date: By:

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation or Carrier/Air Bill No.)
Jacki Lee	3/25/2019	11:35	
~~Jacki Lee~~	3/25/19	13:41	KPI

EKI Environment & Water, Inc.

CHAIN OF CUSTODY RECORD

9115

Formerly known as Erler & Kalinowski, Inc. 577 Airport Blvd. Suite 500, Burlingame CA 94010-2023 www.ekiconsult.com PHONE: 650-292-9100 FAX: 650-552-9012

Project Name: The Residences at Shoreline Gateway

Project No.: B80116.00

Location: Mountain View, CA

Sampled By: Jacki Lee / Priscilla DeJesus

Laboratory: K-Prime Laboratories, Inc.
3621 Westwind Boulevard
Santa Rosa, CA, USA 95403
(707) 527-7574

Reporting:
Electronic Format: NA Hard Copy Format: PDF
EPA Data Report Level: II Report as: Dry Weight
Please report results to the following people:
(1) Data Archive: labs@ekiconsult.com
(2) Michelle King: mking@ekiconsult.com
(3) James Yoon: jyoon@ekiconsult.com
(4) Jacki Lee: jlee@ekiconsult.com

EKI COC No.: (YYYYMMDD-#) 2019-0322-JAL3

Revision: _____ (A, B, C, D, etc.) Date: By:

Field Sample Identification	Lab Sample No.	Date	Time	Matrix	No./Type of Containers	EPA 8081A Organochlorine Pesticides	EPA 6020 Arsenic & Lead	EPA 8082 PCBs	HOLD	EXPECTED TURN-AROUND TIME	REMARKS
1001-BH-01-0.5-1.0	190922	3/22/2019	9:30	soil	1 - 8 oz. jar	x	x			~~STANDARD~~ 2 DAY	9L
1001-BH-01-2.5-3.0	190923	3/22/2019	9:35	soil	1 - 8 oz. jar				x		2
1001-BH-02-0.5-1.0	190924	3/22/2019	7:45	soil	1 - 8 oz. jar	x	x			~~STANDARD~~ 2 DAY	9L
1001-BH-02-2.5-3.0	190925	3/22/2019	7:55	soil	1 - 8 oz. jar				x		2
1001-BH-04-0.5-1.0	190926	3/22/2019	9:00	soil	1 - 8 oz. jar	x	x			~~STANDARD~~ 2 DAY	9L
1001-BH-04-2.5-3.0	190927	3/22/2019	9:05	soil	1 - 8 oz. jar				x		2
1001-BH-05-0.5-1.0	190928	3/22/2019	8:35	soil	1 - 8 oz. jar	x	x			~~STANDARD~~ 2 DAY	9L
1001-BH-05-2.5-3.0	190929	3/22/2019	8:40	soil	1 - 8 oz. jar				x		2 9L
1001-BH-06-0.5-1.0	190930	3/22/2019	8:05	soil	1 - 8 oz. jar			x		~~STANDARD~~ 2 DAY	9L
1001-BH-06-2.5-3.0	190931	3/22/2019	8:10	soil	1 - 8 oz. jar			x		~~STANDARD~~ 2 DAY	9L
1001-BH-3-0.5-1.0	190932	3/23/19	12:15	SOIL	"	X	X			~~STD~~ 2 DAY	9L
1001-BH-3-2.5-3.0	190933	3/23/19	12:30	SOIL	"				X		

Special Instructions:

Questions regarding COC, contact sampler, Jacki Lee (650) 292-9136 or Priscilla DeJesus (650) 292-9104

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation or Carrier/Air Bill No.)
Jacki Lee	3/25/2019	11:35	
George Gray	3/25/19	13:41	KPI

N. Shoreline COCs v2

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

TRANSMITTAL

DATE: 3/29/2019

TO: MS. MICHELLE KING
MR. JAMES YOON
MS. JACKIE LEE
EKI ENVIRONMENT & WATER, INC.
577 AIRPORT BLVD, STE 500
BURLINGAME, CA 94010

Phone: 650-292-9100
Email: labs@ekiconsult.com
mking@ekiconsult.com
jyoon@ekiconsult.com
jlee@ekiconsult.com

ACCT: 9115
PROJ: B80116.00

FROM: Richard A. Kagel, Ph.D. RAK
Laboratory Director SY AB 3/29/19

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT B80116.00

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
1001-SG-01	AIR	3/22/2019	12:58	180934
1001-SG-02	AIR	3/22/2019	12:15	180935
1001-SG-03	AIR	3/22/2019	11:55	180936
1001-SG-04	AIR	3/22/2019	12:36	180937
1001-SG-05	AIR	3/22/2019	13:21	180938
1001-SG-06	AIR	3/22/2019	11:25	180939
1001-SG-07	AIR	3/22/2019	11:05	180940
1001-SG-08	AIR	3/22/2019	10:40	180941
1001-SG-09	AIR	3/22/2019	10:14	180942
1001-SG-DUP	AIR	3/22/2019	11:25	180943

The above listed sample group was received on 3/25/2019 and tested as requested on the chain of custody document.

Please call me if you have any questions or need further information.
Thank you for this opportunity to be of service.

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SIM)

SAMPLE ID:	1001-SG-01
LAB NO:	180934
SAMPLE TYPE:	AIR
DATE SAMPLED:	03/22/2019
TIME SAMPLED:	12:58
BATCH ID:	032219A1
DATE ANALYZED:	03/27/2019

		PPB (V/V)		µg/cu. m	
COMPOUND NAME	**CAS NO.**	**RL**	**SAMPLE CONC**	**RL**	**SAMPLE CONC**
DICHLORODIFLUOROMETHANE	75-71-8	0.800	1.04	3.96	5.14
CHLOROMETHANE	74-87-3	0.800	ND	1.65	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	0.800	ND	5.59	ND
VINYL CHLORIDE	75-01-4	0.800	7.26	2.04	18.5
BROMOMETHANE	74-83-9	0.800	ND	3.11	ND
CHLOROETHANE	75-00-3	0.800	ND	2.11	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.60	ND	8.99	ND
1,1-DICHLOROETHENE	75-35-4	0.800	2.58	3.17	10.2
TRICHLOROTRIFLUOROETHANE	76-13-1	4.00	ND	30.7	ND
METHYLENE CHLORIDE	75-09-2	24.0	ND	83.4	ND
T-1,2-DICHLOROETHENE	156-60-5	0.800	34.2	3.17	136
1,1-DICHLOROETHANE	75-34-3	0.800	1.04	3.24	4.20
C-1,2-DICHLOROETHENE	159-59-2	0.800	111	3.17	439
CHLOROFORM	67-66-3	0.800	ND	3.91	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.800	ND	4.37	ND
1,2-DICHLOROETHANE	107-06-2	0.800	ND	3.24	ND
BENZENE	71-43-2	4.00	ND	12.8	ND
CARBON TETRACHLORIDE	56-23-5	0.800	ND	5.03	ND
1,2-DICHLOROPROPANE	78-87-5	0.800	ND	3.70	ND
TRICHLOROETHENE	79-01-6	0.800	24.1	4.30	130
C-1,3-DICHLOROPROPENE	10061-01-5	0.800	ND	3.63	ND
T-1,3-DICHLOROPROPENE	10061-02-6	0.800	ND	3.63	ND
TOLUENE	108-88-3	4.00	6.10	15.1	23.0
1,1,2-TRICHLOROETHANE	79-00-5	0.800	ND	4.37	ND
1,2-DIBROMOETHANE	106-93-4	0.800	ND	6.15	ND
TETRACHLOROETHENE	127-18-4	0.800	ND	5.43	ND
CHLOROBENZENE	108-90-7	0.800	ND	3.68	ND
ETHYLBENZENE	100-41-4	0.800	ND	3.47	ND
XYLENE (M+P)	179601-23-1	1.60	ND	6.95	ND
STYRENE	100-42-5	0.800	ND	3.41	ND
XYLENE (O)	95-47-6	0.800	ND	3.47	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.800	ND	5.49	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.800	ND	3.93	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.800	ND	3.93	ND
1,3-DICHLOROBENZENE	541-73-1	0.800	ND	4.81	ND
1,4-DICHLOROBENZENE	106-46-7	0.800	ND	4.81	ND
1,2-DICHLOROBENZENE	95-50-1	0.800	ND	4.81	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.800	ND	5.94	ND
NAPHTHALENE	91-20-3	8.00	ND	41.9	ND
HEXACHLOROBUTADIENE	87-68-3	0.800	ND	8.53	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
RL - REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: _____
DATE: 3/29/19

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SIM)

SAMPLE ID:	1001-SG-02
LAB NO:	180935
SAMPLE TYPE:	AIR
DATE SAMPLED:	03/22/2019
TIME SAMPLED:	12:15
BATCH ID:	032219A1
DATE ANALYZED:	03/27/2019

		PPB (V/V)		µg/cu. m	
COMPOUND NAME	**CAS NO.**	**RL**	**SAMPLE CONC**	**RL**	**SAMPLE CONC**
DICHLORODIFLUOROMETHANE	75-71-8	0.200	1.08	0.989	5.32
CHLOROMETHANE	74-87-3	0.200	ND	0.413	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	0.200	ND	1.40	ND
VINYL CHLORIDE	75-01-4	0.200	3.23	0.511	8.25
BROMOMETHANE	74-83-9	0.200	ND	0.777	ND
CHLOROETHANE	75-00-3	0.200	ND	0.528	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.400	0.643	2.25	3.61
1,1-DICHLOROETHENE	75-35-4	0.200	1.38	0.793	5.47
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	ND	7.66	ND
METHYLENE CHLORIDE	75-09-2	6.00	ND	20.8	ND
T-1,2-DICHLOROETHENE	156-60-5	0.200	6.87	0.793	27.2
1,1-DICHLOROETHANE	75-34-3	0.200	0.375	0.810	1.52
C-1,2-DICHLOROETHENE	159-59-2	0.200	6.80	0.793	27.0
CHLOROFORM	67-66-3	0.200	0.708	0.977	3.45
1,1,1-TRICHLOROETHANE	71-55-6	0.200	ND	1.09	ND
1,2-DICHLOROETHANE	107-06-2	0.200	ND	0.809	ND
BENZENE	71-43-2	1.00	1.48	3.19	4.74
CARBON TETRACHLORIDE	56-23-5	0.200	ND	1.26	ND
1,2-DICHLOROPROPANE	78-87-5	0.200	ND	0.924	ND
TRICHLOROETHENE	79-01-6	0.200	26.1	1.07	140
C-1,3-DICHLOROPROPENE	10061-01-5	0.200	ND	0.908	ND
T-1,3-DICHLOROPROPENE	10061-02-6	0.200	ND	0.908	ND
TOLUENE	108-88-3	1.00	6.00	3.77	22.6
1,1,2-TRICHLOROETHANE	79-00-5	0.200	ND	1.09	ND
1,2-DIBROMOETHANE	106-93-4	0.200	ND	1.54	ND
TETRACHLOROETHENE	127-18-4	0.200	0.292	1.36	1.98
CHLOROBENZENE	108-90-7	0.200	ND	0.921	ND
ETHYLBENZENE	100-41-4	0.200	0.462	0.868	2.01
XYLENE (M+P)	179601-23-1	0.400	1.56	1.74	6.77
STYRENE	100-42-5	0.200	ND	0 852	ND
XYLENE (O)	95-47-6	0.200	0.477	0.868	2.07
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.200	ND	1.37	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.200	ND	0.983	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.200	0.442	0.983	2.17
1,3-DICHLOROBENZENE	541-73-1	0.200	ND	1.20	ND
1,4-DICHLOROBENZENE	106-46-7	0.200	ND	1.20	ND
1,2-DICHLOROBENZENE	95-50-1	0.200	ND	1.20	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.200	ND	1.48	ND
NAPHTHALENE	91-20-3	2.00	ND	10.5	ND
HEXACHLOROBUTADIENE	87-68-3	0.200	ND	2.13	ND

NOTES:
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RL - REPORTING LIMIT
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µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: _____
DATE: 3/29/19

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SIM)

SAMPLE ID:	1001-SG-03
LAB NO:	180936
SAMPLE TYPE:	AIR
DATE SAMPLED:	03/22/2019
TIME SAMPLED:	11:55
BATCH ID:	032219A1
DATE ANALYZED:	03/27/2019

		PPB (V/V)		µg/cu. m	
COMPOUND NAME	**CAS NO.**	**RL**	**SAMPLE CONC**	**RL**	**SAMPLE CONC**
DICHLORODIFLUOROMETHANE	75-71-8	0.400	0.923	1.98	4.56
CHLOROMETHANE	74-87-3	0.400	ND	0.826	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	0.400	ND	2.80	ND
VINYL CHLORIDE	75-01-4	0.400	ND	1.02	ND
BROMOMETHANE	74-83-9	0.400	ND	1.55	ND
CHLOROETHANE	75-00-3	0.400	ND	1.06	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.800	ND	4.50	ND
1,1-DICHLOROETHENE	75-35-4	0.400	ND	1.59	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	2.00	ND	15.3	ND
METHYLENE CHLORIDE	75-09-2	12.0	ND	41.7	ND
T-1,2-DICHLOROETHENE	156-60-5	0.400	ND	1.59	ND
1,1-DICHLOROETHANE	75-34-3	0.400	ND	1.62	ND
C-1,2-DICHLOROETHENE	159-59-2	0.400	ND	1.59	ND
CHLOROFORM	67-66-3	0.400	0.638	1.95	3.12
1,1,1-TRICHLOROETHANE	71-55-6	0.400	ND	2.18	ND
1,2-DICHLOROETHANE	107-06-2	0.400	ND	1.62	ND
BENZENE	71-43-2	2.00	ND	6.39	ND
CARBON TETRACHLORIDE	56-23-5	0.400	ND	2.52	ND
1,2-DICHLOROPROPANE	78-87-5	0.400	ND	1.85	ND
TRICHLOROETHENE	79-01-6	0.400	25.2	2.15	136
C-1,3-DICHLOROPROPENE	10061-01-5	0.400	ND	1.82	ND
T-1,3-DICHLOROPROPENE	10061-02-6	0.400	ND	1.82	ND
TOLUENE	108-88-3	2.00	ND	7.54	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.400	ND	2.18	ND
1,2-DIBROMOETHANE	106-93-4	0.400	ND	3.07	ND
TETRACHLOROETHENE	127-18-4	0.400	4.97	2.71	33.7
CHLOROBENZENE	108-90-7	0.400	ND	1.84	ND
ETHYLBENZENE	100-41-4	0.400	ND	1.74	ND
XYLENE (M+P)	179601-23-1	0.800	ND	3.47	ND
STYRENE	100-42-5	0.400	ND	1.70	ND
XYLENE (O)	95-47-6	0.400	ND	1.74	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.400	ND	2.75	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.400	ND	1.97	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.400	ND	1.97	ND
1,3-DICHLOROBENZENE	541-73-1	0.400	ND	2.41	ND
1,4-DICHLOROBENZENE	106-46-7	0.400	ND	2.41	ND
1,2-DICHLOROBENZENE	95-50-1	0.400	ND	2.41	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.400	ND	2.97	ND
NAPHTHALENE	91-20-3	4.00	ND	21.0	ND
HEXACHLOROBUTADIENE	87-68-3	0.400	ND	4.27	ND

NOTES:
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RL - REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: _____
DATE: 3/29/19

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SIM)

SAMPLE ID:	1001-SG-04
LAB NO:	180937
SAMPLE TYPE:	AIR
DATE SAMPLED:	03/22/2019
TIME SAMPLED:	12:36
BATCH ID:	032219A1
DATE ANALYZED:	03/27/2019

		PPB (V/V)		µg/cu. m	
COMPOUND NAME	**CAS NO.**	**RL**	**SAMPLE CONC**	**RL**	**SAMPLE CONC**
DICHLORODIFLUOROMETHANE	75-71-8	0.100	ND	0.495	ND
CHLOROMETHANE	74-87-3	0.100	0.517	0.207	1.07
DICHLOROTETRAFLUOROETHANE	76-14-2	0.100	ND	0.699	ND
VINYL CHLORIDE	75-01-4	0.100	0.811	0.256	2.07
BROMOMETHANE	74-83-9	0.100	ND	0.388	ND
CHLOROETHANE	75-00-3	0.100	ND	0.264	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.200	0.519	1.12	2.92
1,1-DICHLOROETHENE	75-35-4	0.100	0.245	0.397	0.971
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND	3.83	ND
METHYLENE CHLORIDE	75-09-2	3.00	ND	10.4	ND
T-1,2-DICHLOROETHENE	156-60-5	0.100	ND	0.396	ND
1,1-DICHLOROETHANE	75-34-3	0.100	1.72	0.405	6.95
C-1,2-DICHLOROETHENE	159-59-2	0.100	0.376	0.397	1.49
CHLOROFORM	67-66-3	0.100	2.41	0.488	11.8
1,1,1-TRICHLOROETHANE	71-55-6	0.100	ND	0.546	ND
1,2-DICHLOROETHANE	107-06-2	0.100	ND	0.405	ND
BENZENE	71-43-2	0.500	0.583	1.60	1.86
CARBON TETRACHLORIDE	56-23-5	0.100	0.131	0.629	0.823
1,2-DICHLOROPROPANE	78-87-5	0.100	ND	0.462	ND
TRICHLOROETHENE	79-01-6	0.100	13.1	0.537	70.5
C-1,3-DICHLOROPROPENE	10061-01-5	0.100	ND	0.454	ND
T-1,3-DICHLOROPROPENE	10061-02-6	0.100	ND	0.454	ND
TOLUENE	108-88-3	0.500	1.22	1.88	4.61
1,1,2-TRICHLOROETHANE	79-00-5	0.100	ND	0.546	ND
1,2-DIBROMOETHANE	106-93-4	0.100	ND	0.768	ND
TETRACHLOROETHENE	127-18-4	0.100	0.486	0.678	3.29
CHLOROBENZENE	108-90-7	0.100	ND	0.460	ND
ETHYLBENZENE	100-41-4	0.100	ND	0.434	ND
XYLENE (M+P)	179601-23-1	0.200	0.295	0.868	1.28
STYRENE	100-42-5	0.100	0.104	0.426	0.444
XYLENE (O)	95-47-6	0.100	0.117	0.434	0.509
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.100	ND	0.687	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.100	ND	0.492	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.100	0.123	0.492	0.603
1,3-DICHLOROBENZENE	541-73-1	0.100	ND	0.601	ND
1,4-DICHLOROBENZENE	106-46-7	0.100	ND	0.601	ND
1,2-DICHLOROBENZENE	95-50-1	0.100	ND	0.601	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.100	ND	0.742	ND
NAPHTHALENE	91-20-3	1.00	ND	5.24	ND
HEXACHLOROBUTADIENE	87-68-3	0.100	ND	1.07	ND

NOTES:
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RL - REPORTING LIMIT
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µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: _____
DATE: 3/29/19

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SIM)

SAMPLE ID:	1001-SG-05
LAB NO:	180938
SAMPLE TYPE:	AIR
DATE SAMPLED:	03/22/2019
TIME SAMPLED:	13:21
BATCH ID:	032219A1
DATE ANALYZED:	03/27/2019

		PPB (V/V)		µg/cu. m	
COMPOUND NAME	**CAS NO.**	**RL**	**SAMPLE CONC**	**RL**	**SAMPLE CONC**
DICHLORODIFLUOROMETHANE	75-71-8	0.100	0.107	0.495	0.528
CHLOROMETHANE	74-87-3	0.100	2.15	0.207	4.45
DICHLOROTETRAFLUOROETHANE	76-14-2	0.100	ND	0.699	ND
VINYL CHLORIDE	75-01-4	0.100	8.18	0.256	20.9
BROMOMETHANE	74-83-9	0.100	ND	0.388	ND
CHLOROETHANE	75-00-3	0.100	0.182	0.264	0.481
TRICHLOROFLUOROMETHANE	75-69-4	0.200	ND	1.12	ND
1,1-DICHLOROETHENE	75-35-4	0.100	1.71	0.397	6.79
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND	3.83	ND
METHYLENE CHLORIDE	75-09-2	3.00	ND	10.4	ND
T-1,2-DICHLOROETHENE	156-60-5	0.100	1.89	0.396	7.48
1,1-DICHLOROETHANE	75-34-3	0.100	0.134	0.405	0.540
C-1,2-DICHLOROETHENE	159-59-2	0.100	12.4	0.397	49.0
CHLOROFORM	67-66-3	0.100	0.496	0.488	2.42
1,1,1-TRICHLOROETHANE	71-55-6	0.100	ND	0.546	ND
1,2-DICHLOROETHANE	107-06-2	0.100	ND	0.405	ND
BENZENE	71-43-2	0.500	2.43	1.60	7.76
CARBON TETRACHLORIDE	56-23-5	0.100	ND	0.629	ND
1,2-DICHLOROPROPANE	78-87-5	0.100	ND	0.462	ND
TRICHLOROETHENE	79-01-6	0.100	1.08	0.537	5.78
C-1,3-DICHLOROPROPENE	10061-01-5	0.100	ND	0.454	ND
T-1,3-DICHLOROPROPENE	10061-02-6	0.100	ND	0.454	ND
TOLUENE	108-88-3	0.500	5.03	1.88	18.9
1,1,2-TRICHLOROETHANE	79-00-5	0.100	ND	0.546	ND
1,2-DIBROMOETHANE	106-93-4	0.100	ND	0.768	ND
TETRACHLOROETHENE	127-18-4	0.100	0.348	0.678	2.36
CHLOROBENZENE	108-90-7	0.100	ND	0.460	ND
ETHYLBENZENE	100-41-4	0.100	0.361	0.434	1.57
XYLENE (M+P)	179601-23-1	0.200	1.28	0.868	5.55
STYRENE	100-42-5	0.100	ND	0.426	ND
XYLENE (O)	95-47-6	0.100	0.487	0.434	2.11
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.100	ND	0.687	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.100	ND	0.492	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.100	0.328	0.492	1.61
1,3-DICHLOROBENZENE	541-73-1	0.100	ND	0.601	ND
1,4-DICHLOROBENZENE	106-46-7	0.100	ND	0.601	ND
1,2-DICHLOROBENZENE	95-50-1	0.100	ND	0.601	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.100	ND	0.742	ND
NAPHTHALENE	91-20-3	1.00	ND	5.24	ND
HEXACHLOROBUTADIENE	87-68-3	0.100	ND	1.07	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
RL - REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: _____
DATE: 3/29/19

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SIM)

SAMPLE ID:	1001-SG-06
LAB NO:	180939
SAMPLE TYPE:	AIR
DATE SAMPLED:	03/22/2019
TIME SAMPLED:	11:25
BATCH ID:	032219A1
DATE ANALYZED:	03/27/2019

		PPB (V/V)		µg/cu. m	
COMPOUND NAME	**CAS NO.**	**RL**	**SAMPLE CONC**	**RL**	**SAMPLE CONC**
DICHLORODIFLUOROMETHANE	75-71-8	0.400	0.985	1.98	4.87
CHLOROMETHANE	74-87-3	0.400	ND	0.826	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	0.400	ND	2.80	ND
VINYL CHLORIDE	75-01-4	0.400	ND	1.02	ND
BROMOMETHANE	74-83-9	0.400	ND	1.55	ND
CHLOROETHANE	75-00-3	0.400	ND	1.06	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.800	ND	4.50	ND
1,1-DICHLOROETHENE	75-35-4	0.400	ND	1.59	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	2.00	ND	15.3	ND
METHYLENE CHLORIDE	75-09-2	12.0	ND	41.7	ND
T-1,2-DICHLOROETHENE	156-60-5	0.400	ND	1.59	ND
1,1-DICHLOROETHANE	75-34-3	0.400	ND	1.62	ND
C-1,2-DICHLOROETHENE	159-59-2	0.400	ND	1.59	ND
CHLOROFORM	67-66-3	0.400	ND	1.95	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.400	ND	2.18	ND
1,2-DICHLOROETHANE	107-06-2	0.400	ND	1.62	ND
BENZENE	71-43-2	2.00	ND	6.39	ND
CARBON TETRACHLORIDE	56-23-5	0.400	ND	2.52	ND
1,2-DICHLOROPROPANE	78-87-5	0.400	ND	1.85	ND
TRICHLOROETHENE	79-01-6	0.400	ND	2.15	ND
C-1,3-DICHLOROPROPENE	10061-01-5	0.400	ND	1.82	ND
T-1,3-DICHLOROPROPENE	10061-02-6	0.400	ND	1.82	ND
TOLUENE	108-88-3	2.00	2.37	7.54	8.91
1,1,2-TRICHLOROETHANE	79-00-5	0.400	ND	2.18	ND
1,2-DIBROMOETHANE	106-93-4	0.400	ND	3.07	ND
TETRACHLOROETHENE	127-18-4	0.400	47.1	2.71	319
CHLOROBENZENE	108-90-7	0.400	ND	1.84	ND
ETHYLBENZENE	100-41-4	0.400	ND	1.74	ND
XYLENE (M+P)	179601-23-1	0.800	ND	3.47	ND
STYRENE	100-42-5	0.400	ND	1.70	ND
XYLENE (O)	95-47-6	0.400	ND	1.74	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.400	ND	2.75	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.400	ND	1.97	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.400	ND	1.97	ND
1,3-DICHLOROBENZENE	541-73-1	0.400	ND	2.41	ND
1,4-DICHLOROBENZENE	106-46-7	0.400	ND	2.41	ND
1,2-DICHLOROBENZENE	95-50-1	0.400	ND	2.41	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.400	ND	2.97	ND
NAPHTHALENE	91-20-3	4.00	ND	21.0	ND
HEXACHLOROBUTADIENE	87-68-3	0.400	ND	4.27	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
RL - REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: _____
DATE: 3/29/19

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SIM)

SAMPLE ID:	1001-SG-07
LAB NO:	180940
SAMPLE TYPE:	AIR
DATE SAMPLED:	03/22/2019
TIME SAMPLED:	11:05
BATCH ID:	032219A1
DATE ANALYZED:	03/27/2019

		PPB (V/V)		µg/cu. m	
COMPOUND NAME	**CAS NO.**	**RL**	**SAMPLE CONC**	**RL**	**SAMPLE CONC**
DICHLORODIFLUOROMETHANE	75-71-8	0.100	1.06	0.495	5.25
CHLOROMETHANE	74-87-3	0.100	ND	0.207	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	0.100	ND	0.699	ND
VINYL CHLORIDE	75-01-4	0.100	ND	0.256	ND
BROMOMETHANE	74-83-9	0.100	ND	0.388	ND
CHLOROETHANE	75-00-3	0.100	ND	0.264	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.200	ND	1.12	ND
1,1-DICHLOROETHENE	75-35-4	0.100	ND	0.397	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND	3.83	ND
METHYLENE CHLORIDE	75-09-2	3.00	ND	10.4	ND
T-1,2-DICHLOROETHENE	156-60-5	0.100	ND	0.396	ND
1,1-DICHLOROETHANE	75-34-3	0.100	ND	0.405	ND
C-1,2-DICHLOROETHENE	159-59-2	0.100	ND	0.397	ND
CHLOROFORM	67-66-3	0.100	0.760	0.488	3.71
1,1,1-TRICHLOROETHANE	71-55-6	0.100	ND	0.546	ND
1,2-DICHLOROETHANE	107-06-2	0.100	ND	0.405	ND
BENZENE	71-43-2	0.500	0.849	1.60	2.71
CARBON TETRACHLORIDE	56-23-5	0.100	ND	0.629	ND
1,2-DICHLOROPROPANE	78-87-5	0.100	ND	0.462	ND
TRICHLOROETHENE	79-01-6	0.100	ND	0.537	ND
C-1,3-DICHLOROPROPENE	10061-01-5	0.100	ND	0.454	ND
T-1,3-DICHLOROPROPENE	10061-02-6	0.100	ND	0.454	ND
TOLUENE	108-88-3	0.500	5.28	1.88	19.9
1,1,2-TRICHLOROETHANE	79-00-5	0.100	ND	0.546	ND
1,2-DIBROMOETHANE	106-93-4	0.100	ND	0.768	ND
TETRACHLOROETHENE	127-18-4	0.100	0.255	0.678	1.73
CHLOROBENZENE	108-90-7	0.100	ND	0.460	ND
ETHYLBENZENE	100-41-4	0.100	0.455	0.434	1.97
XYLENE (M+P)	179601-23-1	0.200	1.51	0.868	6.55
STYRENE	100-42-5	0.100	ND	0.426	ND
XYLENE (O)	95-47-6	0.100	0.522	0.434	2.27
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.100	ND	0.687	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.100	ND	0.492	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.100	0.315	0.492	1.55
1,3-DICHLOROBENZENE	541-73-1	0.100	ND	0.601	ND
1,4-DICHLOROBENZENE	106-46-7	0.100	ND	0.601	ND
1,2-DICHLOROBENZENE	95-50-1	0.100	ND	0.601	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.100	ND	0.742	ND
NAPHTHALENE	91-20-3	1.00	ND	5.24	ND
HEXACHLOROBUTADIENE	87-68-3	0.100	ND	1.07	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
RL - REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: _____
DATE: 3/29/19

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SIM)

SAMPLE ID:	1001-SG-08
LAB NO:	180941
SAMPLE TYPE:	AIR
DATE SAMPLED:	03/22/2019
TIME SAMPLED:	10:40
BATCH ID:	032219A1
DATE ANALYZED:	03/27/2019

COMPOUND NAME	CAS NO.	PPB (V/V) RL	PPB (V/V) SAMPLE CONC	µg/cu. m RL	µg/cu. m SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.100	ND	0.495	ND
CHLOROMETHANE	74-87-3	0.100	0.669	0.207	1.38
DICHLOROTETRAFLUOROETHANE	76-14-2	0.100	ND	0.699	ND
VINYL CHLORIDE	75-01-4	0.100	ND	0.256	ND
BROMOMETHANE	74-83-9	0.100	ND	0.388	ND
CHLOROETHANE	75-00-3	0.100	0.193	0.264	0.510
TRICHLOROFLUOROMETHANE	75-69-4	0.200	ND	1.12	ND
1,1-DICHLOROETHENE	75-35-4	0.100	ND	0.397	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND	3.83	ND
METHYLENE CHLORIDE	75-09-2	3.00	ND	10.4	ND
T-1,2-DICHLOROETHENE	156-60-5	0.100	ND	0.396	ND
1,1-DICHLOROETHANE	75-34-3	0.100	ND	0.405	ND
C-1,2-DICHLOROETHENE	159-59-2	0.100	ND	0.397	ND
CHLOROFORM	67-66-3	0.100	0.328	0.488	1.60
1,1,1-TRICHLOROETHANE	71-55-6	0.100	ND	0.546	ND
1,2-DICHLOROETHANE	107-06-2	0.100	ND	0.405	ND
BENZENE	71-43-2	0.500	0.834	1.60	2.66
CARBON TETRACHLORIDE	56-23-5	0.100	ND	0.629	ND
1,2-DICHLOROPROPANE	78-87-5	0.100	ND	0.462	ND
TRICHLOROETHENE	79-01-6	0.100	ND	0.537	ND
C-1,3-DICHLOROPROPENE	10061-01-5	0.100	ND	0.454	ND
T-1,3-DICHLOROPROPENE	10061-02-6	0.100	ND	0.454	ND
TOLUENE	108-88-3	0.500	2.95	1.88	11.1
1,1,2-TRICHLOROETHANE	79-00-5	0.100	ND	0.546	ND
1,2-DIBROMOETHANE	106-93-4	0.100	ND	0.768	ND
TETRACHLOROETHENE	127-18-4	0.100	0.273	0.678	1.85
CHLOROBENZENE	108-90-7	0.100	ND	0.460	ND
ETHYLBENZENE	100-41-4	0.100	0.235	0.434	1.02
XYLENE (M+P)	179601-23-1	0.200	0.850	0.868	3.69
STYRENE	100-42-5	0.100	ND	0.426	ND
XYLENE (O)	95-47-6	0.100	0.278	0.434	1.21
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.100	ND	0.687	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.100	0.181	0.492	0.890
1,2,4-TRIMETHYLBENZENE	95-63-6	0.100	0.936	0.492	4.60
1,3-DICHLOROBENZENE	541-73-1	0.100	ND	0.601	ND
1,4-DICHLOROBENZENE	106-46-7	0.100	ND	0.601	ND
1,2-DICHLOROBENZENE	95-50-1	0.100	ND	0.601	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.100	ND	0.742	ND
NAPHTHALENE	91-20-3	1.00	ND	5.24	ND
HEXACHLOROBUTADIENE	87-68-3	0.100	ND	1.07	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
RL - REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: _____
DATE: 3/29/19

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SIM)

SAMPLE ID:	1001-SG-09
LAB NO:	180942
SAMPLE TYPE:	AIR
DATE SAMPLED:	03/22/2019
TIME SAMPLED:	10:14
BATCH ID:	032219A1
DATE ANALYZED:	03/27/2019

		PPB (V/V)		µg/cu. m	
COMPOUND NAME	**CAS NO.**	**RL**	**SAMPLE CONC**	**RL**	**SAMPLE CONC**
DICHLORODIFLUOROMETHANE	75-71-8	0.100	0.431	0.495	2.13
CHLOROMETHANE	74-87-3	0.100	ND	0.207	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	0.100	ND	0.699	ND
VINYL CHLORIDE	75-01-4	0.100	ND	0.256	ND
BROMOMETHANE	74-83-9	0.100	ND	0.388	ND
CHLOROETHANE	75-00-3	0.100	ND	0.264	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.200	ND	1.12	ND
1,1-DICHLOROETHENE	75-35-4	0.100	ND	0.397	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND	3.83	ND
METHYLENE CHLORIDE	75-09-2	3.00	ND	10.4	ND
T-1,2-DICHLOROETHENE	156-60-5	0.100	ND	0.396	ND
1,1-DICHLOROETHANE	75-34-3	0.100	ND	0.405	ND
C-1,2-DICHLOROETHENE	159-59-2	0.100	ND	0.397	ND
CHLOROFORM	67-66-3	0.100	0.286	0.488	1.40
1,1,1-TRICHLOROETHANE	71-55-6	0.100	ND	0.546	ND
1,2-DICHLOROETHANE	107-06-2	0.100	ND	0.405	ND
BENZENE	71-43-2	0.500	0.634	1.60	2.03
CARBON TETRACHLORIDE	56-23-5	0.100	ND	0.629	ND
1,2-DICHLOROPROPANE	78-87-5	0.100	ND	0.462	ND
TRICHLOROETHENE	79-01-6	0.100	ND	0.537	ND
C-1,3-DICHLOROPROPENE	10061-01-5	0.100	ND	0.454	ND
T-1,3-DICHLOROPROPENE	10061-02-6	0.100	ND	0.454	ND
TOLUENE	108-88-3	0.500	1.88	1.88	7.07
1,1,2-TRICHLOROETHANE	79-00-5	0.100	ND	0.546	ND
1,2-DIBROMOETHANE	106-93-4	0.100	ND	0.768	ND
TETRACHLOROETHENE	127-18-4	0.100	ND	0.678	ND
CHLOROBENZENE	108-90-7	0.100	ND	0.460	ND
ETHYLBENZENE	100-41-4	0.100	ND	0.434	ND
XYLENE (M+P)	179601-23-1	0.200	ND	0.868	ND
STYRENE	100-42-5	0.100	ND	0.426	ND
XYLENE (O)	95-47-6	0.100	ND	0.434	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.100	ND	0.687	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.100	ND	0.492	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.100	ND	0.492	ND
1,3-DICHLOROBENZENE	541-73-1	0.100	ND	0.601	ND
1,4-DICHLOROBENZENE	106-46-7	0.100	ND	0.601	ND
1,2-DICHLOROBENZENE	95-50-1	0.100	ND	0.601	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.100	ND	0.742	ND
NAPHTHALENE	91-20-3	1.00	ND	5.24	ND
HEXACHLOROBUTADIENE	87-68-3	0.100	ND	1.07	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
RL - REPORTING LIMIT
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µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: _____
DATE: 3/29/19

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SIM)

SAMPLE ID:	1001-SG-DUP
LAB NO:	180943
SAMPLE TYPE:	AIR
DATE SAMPLED:	03/22/2019
TIME SAMPLED:	11:25
BATCH ID:	032219A1
DATE ANALYZED:	03/27/2019

COMPOUND NAME	CAS NO.	PPB (V/V) RL	PPB (V/V) SAMPLE CONC	µg/cu. m RL	µg/cu. m SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.400	0.968	1.98	4.79
CHLOROMETHANE	74-87-3	0.400	ND	0.826	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	0.400	ND	2.80	ND
VINYL CHLORIDE	75-01-4	0.400	ND	1.02	ND
BROMOMETHANE	74-83-9	0.400	ND	1.55	ND
CHLOROETHANE	75-00-3	0.400	ND	1.06	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.800	ND	4.50	ND
1,1-DICHLOROETHENE	75-35-4	0.400	ND	1.59	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	2.00	ND	15.3	ND
METHYLENE CHLORIDE	75-09-2	12.0	ND	41.7	ND
T-1,2-DICHLOROETHENE	156-60-5	0.400	ND	1.59	ND
1,1-DICHLOROETHANE	75-34-3	0.400	ND	1.62	ND
C-1,2-DICHLOROETHENE	159-59-2	0.400	ND	1.59	ND
CHLOROFORM	67-66-3	0.400	ND	1.95	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.400	ND	2.18	ND
1,2-DICHLOROETHANE	107-06-2	0.400	ND	1.62	ND
BENZENE	71-43-2	2.00	ND	6.39	ND
CARBON TETRACHLORIDE	56-23-5	0.400	ND	2.52	ND
1,2-DICHLOROPROPANE	78-87-5	0.400	ND	1.85	ND
TRICHLOROETHENE	79-01-6	0.400	ND	2.15	ND
C-1,3-DICHLOROPROPENE	10061-01-5	0.400	ND	1.82	ND
T-1,3-DICHLOROPROPENE	10061-02-6	0.400	ND	1.82	ND
TOLUENE	108-88-3	2.00	2.70	7.54	10.2
1,1,2-TRICHLOROETHANE	79-00-5	0.400	ND	2.18	ND
1,2-DIBROMOETHANE	106-93-4	0.400	ND	3.07	ND
TETRACHLOROETHENE	127-18-4	0.400	54.8	2.71	372
CHLOROBENZENE	108-90-7	0.400	ND	1.84	ND
ETHYLBENZENE	100-41-4	0.400	ND	1.74	ND
XYLENE (M+P)	179601-23-1	0.800	ND	3.47	ND
STYRENE	100-42-5	0.400	ND	1.70	ND
XYLENE (O)	95-47-6	0.400	ND	1.74	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.400	ND	2.75	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.400	ND	1.97	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.400	ND	1.97	ND
1,3-DICHLOROBENZENE	541-73-1	0.400	ND	2.41	ND
1,4-DICHLOROBENZENE	106-46-7	0.400	ND	2.41	ND
1,2-DICHLOROBENZENE	95-50-1	0.400	ND	2.41	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.400	ND	2.97	ND
NAPHTHALENE	91-20-3	4.00	ND	21.0	ND
HEXACHLOROBUTADIENE	87-68-3	0.400	ND	4.27	ND

NOTES:
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RL - REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: _____
DATE: 3/29/19

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

METHOD: 1,1-DIFLUOROETHANE
REFERENCE: EPA TO 3

UNITS: PPMV

SAMPLE ID	LAB NO.	SAMPLE TYPE	DATE SAMPLED	BATCH ID	DATE ANALYZED	MRL	SAMPLE CONC
1001-SG-01	180934	AIR	03/22/2019	032619A1	03/26/2019	10.0	ND
1001-SG-02	180935	AIR	03/22/2019	032619A1	03/26/2019	10.0	ND
1001-SG-03	180936	AIR	03/22/2019	032619A1	03/26/2019	10.0	ND
1001-SG-04	180937	AIR	03/22/2019	032619A1	03/26/2019	10.0	ND
1001-SG-05	180938	AIR	03/22/2019	032619A1	03/26/2019	10.0	ND
1001-SG-06	180939	AIR	03/22/2019	032619A1	03/26/2019	10.0	ND
1001-SG-07	180940	AIR	03/22/2019	032619A1	03/26/2019	10.0	14.1
1001-SG-08	180941	AIR	03/22/2019	032619A1	03/26/2019	10.0	ND
1001-SG-09	180942	AIR	03/22/2019	032619A1	03/26/2019	10.0	ND
1001-SG-DUP	180943	AIR	03/22/2019	032619A1	03/26/2019	10.0	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
MRL - METHOD REPORTING LIMIT

APPROVED BY: _____
DATE: 3/29/19

K PRIME, INC.
LABORATORY METHOD BLANK REPORT

METHOD BLANK ID: B032219A1
SAMPLE TYPE: AIR

BATCH ID: 032219A1
DATE ANALYZED: 03/22/2019

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SIM)

		PPB (V/V)		µg/cu. m	
COMPOUND NAME	**CAS NO.**	**RL**	**SAMPLE CONC**	**RL**	**SAMPLE CONC**
DICHLORODIFLUOROMETHANE	75-71-8	0.0100	ND	0.0495	ND
CHLOROMETHANE	74-87-3	0.0100	ND	0.0207	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	0.0100	ND	0.0699	ND
VINYL CHLORIDE	75-01-4	0.0100	ND	0.0256	ND
BROMOMETHANE	74-83-9	0.0100	ND	0.0388	ND
CHLOROETHANE	75-00-3	0.0100	ND	0.0264	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.0200	ND	0.112	ND
1,1-DICHLOROETHENE	75-35-4	0.0100	ND	0.0397	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0500	ND	0.383	ND
METHYLENE CHLORIDE	75-09-2	0.300	ND	1.04	ND
T-1,2-DICHLOROETHENE	156-60-5	0.0100	ND	0.0396	ND
1,1-DICHLOROETHANE	75-34-3	0.0100	ND	0.0405	ND
C-1,2-DICHLOROETHENE	159-59-2	0.0100	ND	0.0397	ND
CHLOROFORM	67-66-3	0.0100	ND	0.0488	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
1,2-DICHLOROETHANE	107-06-2	0.0100	ND	0.0405	ND
BENZENE	71-43-2	0.0500	ND	0.160	ND
CARBON TETRACHLORIDE	56-23-5	0.0100	ND	0.0629	ND
1,2-DICHLOROPROPANE	78-87-5	0.0100	ND	0.0462	ND
TRICHLOROETHENE	79-01-6	0.0100	ND	0.0537	ND
C-1,3-DICHLOROPROPENE	10061-01-5	0.0100	ND	0.0454	ND
T-1,3-DICHLOROPROPENE	10061-02-6	0.0100	ND	0.0454	ND
TOLUENE	108-88-3	0.0500	ND	0.188	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.0100	ND	0.0546	ND
1,2-DIBROMOETHANE	106-93-4	0.0100	ND	0.0768	ND
TETRACHLOROETHENE	127-18-4	0.0100	ND	0.0678	ND
CHLOROBENZENE	108-90-7	0.0100	ND	0.0460	ND
ETHYLBENZENE	100-41-4	0.0100	ND	0.0434	ND
XYLENE (M+P)	179601-23-1	0.0200	ND	0.0868	ND
STYRENE	100-42-5	0.0100	ND	0.0426	ND
XYLENE (O)	95-47-6	0.0100	ND	0.0434	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.0100	ND	0.0687	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.0100	ND	0.0492	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.0100	ND	0.0492	ND
1,3-DICHLOROBENZENE	541-73-1	0.0100	ND	0.0601	ND
1,4-DICHLOROBENZENE	106-46-7	0.0100	ND	0.0601	ND
1,2-DICHLOROBENZENE	95-50-1	0.0100	ND	0.0601	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.0100	ND	0.0742	ND
NAPHTHALENE	91-20-3	0.100	ND	0.524	ND
HEXACHLOROBUTADIENE	87-68-3	0.0100	ND	0.107	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
MRL - METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

K PRIME, INC.
LABORATORY QUALITY CONTROL REPORT

LAB CONTROL ID: L032219A1
LAB CONTROL DUPLICATE ID: D032219A1

SAMPLE TYPE: AIR
BATCH ID: 032219A1
DATE ANALYZED: 03/22/2019

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SIM)

COMPOUND NAME	SPIKE ADDED (PPB)	REPORTING LIMIT (PPB)	SAMPLE CONC (PPB)	SPIKE CONC (PPB)	SPIKE REC (%)	REC LIMITS (%)
1,1-DICHLOROETHENE	0.500	0.0100	ND	0.444	89	60 - 140
BENZENE	0.500	0.0500	ND	0.421	84	60 - 140
TRICHLOROETHENE	0.500	0.0100	ND	0.518	104	60 - 140
TOLUENE	0.500	0.0500	ND	0.459	92	60 - 140
TETRACHLOROETHENE	0.500	0.0100	ND	0.536	107	60 - 140

COMPOUND NAME	SPIKE ADDED (PPB)	SPIKE DUP CONC (PPB)	SPIKE DUP REC (%)	RPD (%)	QC LIMITS RPD (%)	QC LIMITS REC (%)
1,1-DICHLOROETHENE	0.500	0.433	87	2.5	25	60 - 140
BENZENE	0.500	0.406	81	3.6	25	60 - 140
TRICHLOROETHENE	0.500	0.501	100	3.3	25	60 - 140
TOLUENE	0.500	0.441	88	4.1	25	60 - 140
TETRACHLOROETHENE	0.500	0.511	102	4.7	25	60 - 140

NOTES:
NA - NOT APPLICABLE OR AVAILABLE
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

K PRIME, INC.
LABORATORY QC REPORT

METHOD BLANK ID: B032619A1
LAB CONTROL SAMPLE ID: L032619A1
LAB CONTROL DUPLICATE ID: D032619A1
BATCH ID: 032619A1

METHOD: 1,1-DIFLUOROETHANE
REFERENCE: EPA TO 3

SAMPLE TYPE: AIR
UNITS: PPM -V/V

METHOD BLANK

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
1,1-DIFLUOROETHANE	10.0	ND

ACCURACY (LAB CONTROL SAMPLE)

COMPOUND NAME	EXPECTED CONC	MEASURED CONC	PERCENT RECOVERY	LIMITS (PERCENT)
1,1-DIFLUOROETHANE	10000	9220	92.2	60-140

PRECISION (LAB CONTROL DUPLICATE)

COMPOUND NAME	SAMPLE RESULT	DUPLICATE RESULT	RPD (PERCENT)	LIMITS (PERCENT)
1,1-DIFLUOROETHANE	9220	9160	0.653	±30

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE

EKI Environment & Water, Inc.

CHAIN OF CUSTODY RECORD

Formerly known as Erler & Kalinowski, Inc. 577 Airport Blvd. Suite 500, Burlingame CA 94010-20 www.ekiconsult.com PHONE: 650-292-9100 FAX: 650-552-9012

TO-15 SIM TO-15

Project Name: The Residences at Shoreline Gateway

Project No.: B80116.00

Location: Mountain View, CA

Sampled By: Jacki Lee

Reporting:
Electronic Format: NA Hard Copy Format: PDF
EPA Data Report Level: II
Please report results to the following people:
(1) Data Archive: labs@ekiconsult.com
(2) Michelle King: mking@ekiconsult.com
(3) James Yoon: jyoon@ekiconsult.com
(4) Jacki Lee: jlee@ekiconsult.com

Laboratory:
K-Prime Laboratories, Inc.
3621 Westwind Boulevard
Santa Rosa, CA, USA 95403
(707) 527-7574

EKI COC No.: (YYYYMMDD-#) 2019-0322-JAL1

Revision: _____ (A, B, C, D, etc.)
Date: By:

Field Sample Identification	Lab Sample No.	Date	Time	Matrix	No./Type of Containers	Method No. TO-3	Analyte Group VOCs	Analyte Group Difluoroethane	EXPECTED TURN-AROUND TIME	Canister/Manifold Serial Number
1001-SG-01	1900934	3/22/2019	12:58	soil vapor	1 1-liter Summa	x	x		~~STANDARD~~	ICS-520
1001-SG-02	1900935	3/22/2019	12:15	soil vapor	1 1-liter Summa	x	x		STANDARD	ICS-206
1001-SG-03	1900936	3/22/2019	11:55	soil vapor	1 1-liter Summa	x	x		STANDARD	ICS-280
1001-SG-04	1900937	3/22/2019	12:36	soil vapor	1 1-liter Summa	x	x		STANDARD	ICS- ~~1900935~~ 235
1001-SG-05	1900938	3/22/2019	13:21	soil vapor	1 1-liter Summa	x	x		STANDARD	ICS-129
1001-SG-06	1900939	3/22/2019	11:25	soil vapor	1 1-liter Summa	x	x		STANDARD	ICS-360
1001-SG-07	1900940	3/22/2019	11:05	soil vapor	1 1-liter Summa	x	x		STANDARD	ICS-721
1001-SG-08	1900941	3/22/2019	10:40	soil vapor	1 1-liter Summa	x	x		STANDARD	ICS-659
1001-SG-09	1900942	3/22/2019	10:14	soil vapor	1 1-liter Summa	x	x		STANDARD	ICS-361
1001-SG-DUP	1900943	3/22/2019	11:25	soil vapor	1 1-liter Summa	x	x		STANDARD	ICS-295

5 DAY TAT

OK 3/25/2019

Special Instructions:
PROVIDE THE LOWEST AVAILABLE REPORTING LIMITS
Questions regarding COC, contact sampler, Jacki Lee (650) 292-9136

Relinquished by: Jacki Lee (Signature/Affiliation)	Date 3/25/2019	Time 11:35	Received by: (Signature/Affiliation or Carrier Air Bill No.)
Relinquished by: (Signature/Affiliation)	Date 3/25/19	Time 13:41	Received by: (Signature/Affiliation) KDI
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)

EKI Environment & Water, Inc.

CHAIN OF CUSTODY RECORD

Formerly known as Erler & Kalinowski, Inc. | 577 Airport Blvd. Suite 500, Burlingame CA 94010-2023 | www.ekiconsult.com | PHONE: 650-292-9100 | FAX: 650-552-9012

Project Name: The Residences at Shoreline Gateway

Project No.: B80116.00

Location: Mountain View, CA

Sampled By: Jacki Lee

Reporting:
Electronic Format: NA Hard Copy Format: PDF
EPA Data Report Level: II
Please report results to the following people:
(1) Data Archive: labs@ekiconsult.com
(2) Michelle King: mking@ekiconsult.com
(3) James Yoon: jyoon@ekiconsult.com
(4) Jacki Lee: jlee@ekiconsult.com

Laboratory:
K-Prime Laboratories, Inc.
3621 Westwind Boulevard
Santa Rosa, CA, USA 95403
(707) 527-7574

EKI COC No.: (YYYYMMDD-#) 2019-03-22-JAL1

ANALYSES REQUESTED

Method No.	TO-15	TO-3
Analyte Group	VOCs	Difluoroethane

Field Sample Identification	Lab Sample No.	Date	Time	Matrix	No./Type of Containers	TO-15	TO-3	EXPECTED TURN-AROUND TIME	Canister/Manifold Serial Number
1001-SG-01	190934	3/22/2019	12:58	soil vapor	1 1-liter Summa	x	x	~~STANDARD~~	ICS-520
1001-SG-02	190935	3/22/2019	12:15	soil vapor	1 1-liter Summa	x	x	STANDARD	ICS-206
1001-SG-03	190936	3/22/2019	11:55	soil vapor	1 1-liter Summa	x	x	STANDARD	ICS-290
1001-SG-04	190937	3/22/2019	12:36	soil vapor	1 1-liter Summa	x	x	STANDARD	ICS- ~~ICS8235~~ 235
1001-SG-05	190938	3/22/2019	13:21	soil vapor	1 1-liter Summa	x	x	STANDARD	ICS-129
1001-SG-06	190939	3/22/2019	11:25	soil vapor	1 1-liter Summa	x	x	STANDARD	ICS-360
1001-SG-07	190940	3/22/2019	11:05	soil vapor	1 1-liter Summa	x	x	STANDARD	ICS-721
1001-SG-08	190941	3/22/2019	10:40	soil vapor	1 1-liter Summa	x	x	STANDARD	ICS-659
1001-SG-09	190942	3/22/2019	10:14	soil vapor	1 1-liter Summa	x	x	STANDARD	ICS-361
1001-SG-DUP	190943	3/22/2019	11:25	soil vapor	1 1-liter Summa	x	x	STANDARD	ICS-295

5 DAY TAT

3/25/2019

Special Instructions:
PROVIDE THE LOWEST AVAILABLE REPORTING LIMITS
Questions regarding COC, contact sampler, Jacki Lee (650) 292-9136

		Date	Time		
Relinquished by: Jacki Lee	(Signature/Affiliation)	3/25/2019	11:35	**Received by:** (Signature/Affiliation or Carrier Air Bill No.)	
Relinquished by:	(Signature/Affiliation)	3/25/19	13:41	**Received by:** (Signature/Affiliation)	KP1
Relinquished by:	(Signature/Affiliation)	Date	Time	**Received by:** (Signature/Affiliation)	

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

TRANSMITTAL

DATE: 3/29/2019

TO: MS. MICHELLE KING
MR. JAMES YOON
MS. JACKI LEE
EKI ENVIRONMENT & WATER, INC.
577 AIRPORT BLVD, STE 500
BURLINGAME, CA 94010

Phone: 650-292-9100
Email: labs@ekiconsult.com
mkking@ekiconsult.com
jyoon@ekiconsult.com
jlee@ekiconsult.com

ACCT: 9115
PROJ: B80116.00

FROM: Richard A. Kagel, Ph.D. RAK
Laboratory Director by AB
3/29/19

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT B80116.00

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
1001-SG-01-SHROUD	AIR	3/22/2019	12:55	180944
1001-SG-02-SHROUD	AIR	3/22/2019	12:15	180945
1001-SG-03-SHROUD	AIR	3/22/2019	11:55	180946
1001-SG-04-SHROUD	AIR	3/22/2019	12:36	180947
1001-SG-05-SHROUD	AIR	3/22/2019	13:21	180948
1001-SG-06-SHROUD	AIR	3/22/2019	11:34	180949
1001-SG-07-SHROUD	AIR	3/22/2019	11:05	180950
1001-SG-08-SHROUD	AIR	3/22/2019	10:40	180951
1001-SG-09-SHROUD	AIR	3/22/2019	10:14	180952

The above listed sample group was received on 3/25/2019 and tested as requested on the chain of custody document.

Please call me if you have any questions or need further information.
Thank you for this opportunity to be of service.

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

METHOD: 1,1-DIFLUOROETHANE
REFERENCE: EPA TO 3

UNITS: PPMV

SAMPLE ID	LAB NO.	SAMPLE TYPE	DATE SAMPLED	BATCH ID	DATE ANALYZED	MRL	SAMPLE CONC
1001-SG-01-SHROUD	180944	AIR	03/22/2019	032619A1	03/27/2019	10.0	21200
1001-SG-02-SHROUD	180945	AIR	03/22/2019	032619A1	03/27/2019	10.0	5110
1001-SG-03-SHROUD	180946	AIR	03/22/2019	032619A1	03/27/2019	10.0	1400
1001-SG-04-SHROUD	180947	AIR	03/22/2019	032619A1	03/27/2019	10.0	3550
1001-SG-05-SHROUD	180948	AIR	03/22/2019	032619A1	03/27/2019	10.0	22500
1001-SG-06-SHROUD	180949	AIR	03/22/2019	032619A1	03/27/2019	10.0	533
1001-SG-07-SHROUD	180950	AIR	03/22/2019	032619A1	03/27/2019	10.0	4400
1001-SG-08-SHROUD	180951	AIR	03/22/2019	032619A1	03/27/2019	10.0	5840
1001-SG-09-SHROUD	180952	AIR	03/22/2019	032619A1	03/27/2019	10.0	3460

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
MRL - METHOD REPORTING LIMIT

APPROVED BY: _____
DATE: 3/27/19

K PRIME, INC.
LABORATORY QC REPORT

METHOD BLANK ID: B032619A1
LAB CONTROL SAMPLE ID: L032619A1
LAB CONTROL DUPLICATE ID: D032619A1
BATCH ID: 032619A1

METHOD: 1,1-DIFLUOROETHANE
REFERENCE: EPA TO 3

SAMPLE TYPE: AIR
UNITS: PPM -V/V

METHOD BLANK

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
1,1-DIFLUOROETHANE	10.0	ND

ACCURACY (LAB CONTROL SAMPLE)

COMPOUND NAME	EXPECTED CONC	MEASURED CONC	PERCENT RECOVERY	LIMITS (PERCENT)
1,1-DIFLUOROETHANE	10000	9220	92.2	60-140

PRECISION (LAB CONTROL DUPLICATE)

COMPOUND NAME	SAMPLE RESULT	DUPLICATE RESULT	RPD (PERCENT)	LIMITS (PERCENT)
1,1-DIFLUOROETHANE	9220	9160	0.653	±30

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE

9115

EKI Environment & Water, Inc.

CHAIN OF CUSTODY RECORD

Formerly known as Erler & Kalinowski, Inc. 577 Airport Blvd. Suite 500, Burlingame CA 94010-2023 www.ekiconsult.com PHONE: 650-292-9100 FAX: 650-552-9012

Project Name: The Residences at Shoreline Gateway

Project No.: B80116.00

Location: Mountain View, CA

Sampled By: Jacki Lee

Reporting:
Electronic Format: NA Hard Copy Format: PDF
EPA Data Report Level: II
Please report results to the following people:
(1) Data Archive: labs@ekiconsult.com
(2) Michelle King: mking@ekiconsult.com
(3) James Yoon: jyoon@ekiconsult.com
(4) Jacki Lee: jlee@ekiconsult.com

Laboratory:
K-Prime Laboratories, Inc.
3621 Westwind Boulevard
Santa Rosa, CA, USA 95403
(707) 527-7574

EKI COC No.: (YYYYMMDD-#) 2019-03-22-JAL2

ANALYSES REQUESTED

Field Sample Identification	Lab Sample No.	Date	Time	Matrix	No./Type of Containers	Method No. TO-3 / Analyte Group Difluoroethane	EXPECTED TURN-AROUND TIME	Canister/Manifold Serial Number
1001-SG-01-Shroud	180944	3/22/2019	12:55	air	1 1-liter Summa	x	~~STANDARD~~ 5 DAY TAT	ICS-521
1001-SG-02-Shroud	180945	3/22/2019	12:15	air	1 1-liter Summa	x	STANDARD	ICS-357
1001-SG-03-Shroud	180946	3/22/2019	11:55	air	1 1-liter Summa	x	STANDARD	ICS-211
1001-SG-04-Shroud	180947	3/22/2019	12:36	air	1 1-liter Summa	x	STANDARD	ICS-203
1001-SG-05-Shroud	180948	3/22/2019	13:21	air	1 1-liter Summa	x	STANDARD	ICS-237
1001-SG-06-Shroud	180949	3/22/2019	11:34	air	1 1-liter Summa	x	STANDARD	ICS-723
1001-SG-07-Shroud	180950	3/22/2019	11:05	air	1 1-liter Summa	x	STANDARD	ICS-296
1001-SG-08-Shroud	180951	3/22/2019	10:40	air	1 1-liter Summa	x	STANDARD	ICS-856
1001-SG-09-Shroud	180952	3/22/2019	10:14	air	1 1-liter Summa	x	~~STANDARD~~ 9V 3/25/2019	ICS-255

Revision: _____ (A, B, C, D, etc.) Date: By:

Special Instructions:

PROVIDE THE LOWEST AVAILABLE REPORTING LIMITS
Questions regarding COC, contact Jacki Lee (650) 759-2409

Relinquished by: Jacki Lee (Signature/Affiliation) , EKI	Date 3/25/2019	Time 1135	**Received by:** (Signature/Affiliation or Carrier/Air Bill No.)
Relinquished by: (Signature/Affiliation)	Date 3/25/19	Time 13:41	**Received by:** (Signature/Affiliation) KPI
Relinquished by: (Signature/Affiliation)	Date	Time	**Received by:** (Signature/Affiliation)

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

TRANSMITTAL

DATE: 4/22/2019

TO: MS. MICHELLE KING
MR. JAMES YOON
MS. JACKI LEE
MS. IRMA MARIN
EKI ENVIRONMENT & WATER, INC.
577 AIRPORT BLVD, STE 500
BURLINGAME, CA 94010

Phone: 650-292-9100
Email: labs@ekiconsult.com
mkking@ekiconsult.com
jyoon@ekiconsult.com
jlee@ekiconsult.com
imarin@ekiconsult.com

ACCT: 9115
PROJ: B80116.00

FROM: Richard A. Kagel, Ph.D. RAK
Laboratory Director by AB
4/22/19

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT B80116.00

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
1001-SG-10	AIR	4/19/2019	9:30	181758
1001-SG-11	AIR	4/19/2019	9:06	181759

The above listed sample group was received on 4/19/2019 and tested as requested on the chain of custody document.

Please call me if you have any questions or need further information.
Thank you for this opportunity to be of service.

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO-15-SIM (GC-MS-SIM)

SAMPLE ID:	1001-SG-10
LAB NO:	181758
SAMPLE TYPE:	AIR
DATE SAMPLED:	04/19/2019
TIME SAMPLED:	09:30
BATCH ID:	041619A1
DATE ANALYZED:	04/22/2019

		PPB (V/V)		µg/cu. m	
COMPOUND NAME	**CAS NO.**	**MRL**	**SAMPLE CONC**	**MRL**	**SAMPLE CONC**
DICHLORODIFLUOROMETHANE	75-71-8	0.100	0.623	0.495	3.08
DICHLOROTETRAFLUOROETHANE	76-14-2	0.100	ND	0.699	ND
CHLOROMETHANE	74-87-3	0.200	0.212	0.413	0.438
VINYL CHLORIDE	75-01-4	0.100	ND	0.256	ND
BROMOMETHANE	74-83-9	0.100	ND	0.388	ND
CHLOROETHANE	75-00-3	0.100	ND	0.264	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.100	0.310	0.562	1.74
1,1-DICHLOROETHENE	75-35-4	0.100	ND	0.397	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND	3.83	ND
METHYLENE CHLORIDE	75-09-2	3.00	ND	10.4	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.100	ND	0.396	ND
1,1-DICHLOROETHANE	75-34-3	0.100	ND	0.405	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.100	ND	0.397	ND
CHLOROFORM	67-66-3	0.100	0.878	0.488	4.29
1,1,1-TRICHLOROETHANE	71-55-6	0.100	0.135	0.546	0.738
1,2-DICHLOROETHANE	107-06-2	0.100	ND	0.405	ND
BENZENE	71-43-2	0.500	0.760	1.60	2.43
CARBON TETRACHLORIDE	56-23-5	0.100	ND	0.629	ND
1,2-DICHLOROPROPANE	78-87-5	0.100	ND	0.462	ND
TRICHLOROETHENE	79-01-6	0.100	ND	0.537	ND
CIS-1,3-DICHLOROPROPENE	10061-02-6	0.100	ND	0.454	ND
TRANS-1,3-DICHLOROPROPENE	10061-01-5	0.100	ND	0.454	ND
TOLUENE	108-88-3	0.500	2.97	1.88	11.2
1,1,2-TRICHLOROETHANE	79-00-5	0.100	ND	0.546	ND
1,2-DIBROMOETHANE	106-93-4	0.100	ND	0.768	ND
TETRACHLOROETHENE	127-18-4	0.100	15.7	0.678	107
CHLOROBENZENE	108-90-7	0.100	ND	0.460	ND
ETHYLBENZENE	100-41-4	0.100	0.168	0.434	0.729
XYLENE (M+P)	1330-20-7	0.200	0.456	0.868	1.98
STYRENE	100-42-5	0.100	ND	0.426	ND
XYLENE (O)	95-47-6	0.100	0.174	0.434	0.757
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.100	ND	0.687	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.100	ND	0.492	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.100	ND	0.492	ND
1,3-DICHLOROBENZENE	541-73-1	0.100	ND	0.601	ND
1,4-DICHLOROBENZENE	106-46-7	0.100	ND	0.601	ND
1,2-DICHLOROBENZENE	95-50-1	0.100	ND	0.601	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.100	ND	0.742	ND
HEXACHLOROBUTADIENE	87-68-3	0.100	ND	1.07	ND
NAPHTHALENE	91-20-3	0.200	ND	1.048	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
MRL - METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: _____
DATE: 4/22/19

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO-15-SIM (GC-MS-SIM)

SAMPLE ID:	1001-SG-11
LAB NO:	181759
SAMPLE TYPE:	AIR
DATE SAMPLED:	04/19/2019
TIME SAMPLED:	09:06
BATCH ID:	041619A1
DATE ANALYZED:	04/22/2019

		PPB (V/V)		µg/cu. m	
COMPOUND NAME	**CAS NO.**	**MRL**	**SAMPLE CONC**	**MRL**	**SAMPLE CONC**
DICHLORODIFLUOROMETHANE	75-71-8	0.100	0.324	0.495	1.60
DICHLOROTETRAFLUOROETHANE	76-14-2	0.100	ND	0.699	ND
CHLOROMETHANE	74-87-3	0.200	ND	0.413	ND
VINYL CHLORIDE	75-01-4	0.100	ND	0.256	ND
BROMOMETHANE	74-83-9	0.100	ND	0.388	ND
CHLOROETHANE	75-00-3	0.100	ND	0.264	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.100	0.105	0.562	0.588
1,1-DICHLOROETHENE	75-35-4	0.100	ND	0.397	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND	3.83	ND
METHYLENE CHLORIDE	75-09-2	3.00	ND	10.4	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.100	ND	0.396	ND
1,1-DICHLOROETHANE	75-34-3	0.100	ND	0.405	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.100	ND	0.397	ND
CHLOROFORM	67-66-3	0.100	0.424	0.488	2.07
1,1,1-TRICHLOROETHANE	71-55-6	0.100	ND	0.546	ND
1,2-DICHLOROETHANE	107-06-2	0.100	ND	0.405	ND
BENZENE	71-43-2	0.500	0.676	1.60	2.16
CARBON TETRACHLORIDE	56-23-5	0.100	ND	0.629	ND
1,2-DICHLOROPROPANE	78-87-5	0.100	ND	0.462	ND
TRICHLOROETHENE	79-01-6	0.100	0.904	0.537	4.86
CIS-1,3-DICHLOROPROPENE	10061-02-6	0.100	ND	0.454	ND
TRANS-1,3-DICHLOROPROPENE	10061-01-5	0.100	ND	0.454	ND
TOLUENE	108-88-3	0.500	4.63	1.88	17.5
1,1,2-TRICHLOROETHANE	79-00-5	0.100	ND	0.546	ND
1,2-DIBROMOETHANE	106-93-4	0.100	ND	0.768	ND
TETRACHLOROETHENE	127-18-4	0.100	26.4	0.678	179
CHLOROBENZENE	108-90-7	0.100	ND	0.460	ND
ETHYLBENZENE	100-41-4	0.100	0.204	0.434	0.884
XYLENE (M+P)	1330-20-7	0.200	0.340	0.868	1.47
STYRENE	100-42-5	0.100	ND	0.426	ND
XYLENE (O)	95-47-6	0.100	0.190	0.434	0.826
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.100	ND	0.687	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.100	ND	0.492	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.100	ND	0.492	ND
1,3-DICHLOROBENZENE	541-73-1	0.100	ND	0.601	ND
1,4-DICHLOROBENZENE	106-46-7	0.100	ND	0.601	ND
1,2-DICHLOROBENZENE	95-50-1	0.100	ND	0.601	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.100	ND	0.742	ND
HEXACHLOROBUTADIENE	87-68-3	0.100	ND	1.07	ND
NAPHTHALENE	91-20-3	0.200	ND	1.05	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
MRL - METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: _____
DATE: 4/22/19

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

METHOD: 1,1-DIFLUOROETHANE
REFERENCE: EPA TO 3

UNITS: PPMV

SAMPLE ID	LAB NO.	SAMPLE TYPE	DATE SAMPLED	BATCH ID	DATE ANALYZED	MRL	SAMPLE CONC
1001-SG-10	181758	AIR	04/19/2019	041819A1	04/22/2019	10.0	ND
1001-SG-11	181759	AIR	04/19/2019	041819A1	04/22/2019	10.0	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
MRL - METHOD REPORTING LIMIT

APPROVED BY: _____
DATE: 4/22/19

K PRIME, INC.
LABORATORY METHOD BLANK REPORT

METHOD BLANK ID: B041619A1
SAMPLE TYPE: AIR

BATCH ID: 041619A1
DATE ANALYZED: 04/16/2019

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO-15-SIM (GC-MS-SIM)

		PPB (V/V)		µg/cu. m	
COMPOUND NAME	**CAS NO.**	**MRL**	**SAMPLE CONC**	**MRL**	**SAMPLE CONC**
DICHLORODIFLUOROMETHANE	75-71-8	0.0100	ND	0.0495	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	0.0100	ND	0.0699	ND
CHLOROMETHANE	74-87-3	0.0200	ND	0.0413	ND
VINYL CHLORIDE	75-01-4	0.0100	ND	0.0256	ND
BROMOMETHANE	74-83-9	0.0100	ND	0.0388	ND
CHLOROETHANE	75-00-3	0.0100	ND	0.0264	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	ND	0.0562	ND
1,1-DICHLOROETHENE	75-35-4	0.0100	ND	0.0397	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0500	ND	0.383	ND
METHYLENE CHLORIDE	75-09-2	0.300	ND	1.04	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.0100	ND	0.0396	ND
1,1-DICHLOROETHANE	75-34-3	0.0100	ND	0.0405	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.0100	ND	0.0397	ND
CHLOROFORM	67-66-3	0.0100	ND	0.0488	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
1,2-DICHLOROETHANE	107-06-2	0.0100	ND	0.0405	ND
BENZENE	71-43-2	0.0500	ND	0.160	ND
CARBON TETRACHLORIDE	56-23-5	0.0100	ND	0.0629	ND
1,2-DICHLOROPROPANE	78-87-5	0.0100	ND	0.0462	ND
TRICHLOROETHENE	79-01-6	0.0100	ND	0.0537	ND
CIS-1,3-DICHLOROPROPENE	10061-02-6	0.0100	ND	0.0454	ND
TRANS-1,3-DICHLOROPROPENE	10061-01-5	0.0100	ND	0.0454	ND
TOLUENE	108-88-3	0.0500	ND	0.188	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.0100	ND	0.0546	ND
1,2-DIBROMOETHANE	106-93-4	0.0100	ND	0.0768	ND
TETRACHLOROETHENE	127-18-4	0.0100	ND	0.0678	ND
CHLOROBENZENE	108-90-7	0.0100	ND	0.0460	ND
ETHYLBENZENE	100-41-4	0.0100	ND	0.0434	ND
XYLENE (M+P)	1330-20-7	0.0200	ND	0.0868	ND
STYRENE	100-42-5	0.0100	ND	0.0426	ND
XYLENE (O)	95-47-6	0.0100	ND	0.0434	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.0100	ND	0.0687	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.0100	ND	0.0492	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.0100	ND	0.0492	ND
1,3-DICHLOROBENZENE	541-73-1	0.0100	ND	0.0601	ND
1,4-DICHLOROBENZENE	106-46-7	0.0100	ND	0.0601	ND
1,2-DICHLOROBENZENE	95-50-1	0.0100	ND	0.0601	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.0100	ND	0.0742	ND
HEXACHLOROBUTADIENE	87-68-3	0.0100	ND	0.107	ND
NAPHTHALENE	91-20-3	0.0200	ND	0.105	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
MRL - METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

K PRIME, INC.
LABORATORY QUALITY CONTROL REPORT

LAB CONTROL ID: L041619A1
LAB CONTROL DUPLICATE ID: D041619A1

SAMPLE TYPE: AIR
BATCH ID: 041619A1
DATE ANALYZED: 04/16/2019

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO-15-SIM (GC-MS-SIM)

COMPOUND NAME	SPIKE ADDED (PPB)	REPORTING LIMIT (PPB)	SAMPLE CONC (PPB)	SPIKE CONC (PPB)	SPIKE REC (%)	REC LIMITS (%)
1,1-DICHLOROETHENE	0.500	0.010	ND	0.485	97	60 - 140
TRICHLOROETHENE	0.500	0.010	ND	0.517	103	60 - 140
BENZENE	0.500	0.050	ND	0.432	86	60 - 140
TOLUENE	0.500	0.050	ND	0.436	87	60 - 140
TETRACHLOROETHENE	0.500	0.010	ND	0.521	104	60 - 140

COMPOUND NAME	SPIKE ADDED (PPB)	SPIKE DUP CONC (PPB)	SPIKE DUP REC (%)	RPD (%)	QC LIMITS RPD (%)	QC LIMITS REC (%)
1,1-DICHLOROETHENE	0.500	0.484	97	0.1	25	60 - 140
TRICHLOROETHENE	0.500	0.515	103	0.3	25	60 - 140
BENZENE	0.500	0.433	87	0.3	25	60 - 140
TOLUENE	0.500	0.413	83	5.4	25	60 - 140
TETRACHLOROETHENE	0.500	0.506	101	3.0	25	60 - 140

NOTES:
NA - NOT APPLICABLE OR AVAILABLE
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

K PRIME, INC.
LABORATORY QC REPORT

METHOD BLANK ID: B041819A1
LAB CONTROL SAMPLE ID: L041819A1
LAB CONTROL DUPLICATE ID: D041819A1
BATCH ID: 041819A1

METHOD: 1,1-DIFLUOROETHANE
REFERENCE: EPA TO 3

SAMPLE TYPE: AIR
UNITS: PPM -V/V

METHOD BLANK

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
1,1-DIFLUOROETHANE	10.0	ND

ACCURACY (LAB CONTROL SAMPLE)

COMPOUND NAME	EXPECTED CONC	MEASURED CONC	PERCENT RECOVERY	LIMITS (PERCENT)
1,1-DIFLUOROETHANE	10000	12400	124	60-140

PRECISION (LAB CONTROL DUPLICATE)

COMPOUND NAME	SAMPLE RESULT	DUPLICATE RESULT	RPD (PERCENT)	LIMITS (PERCENT)
1,1-DIFLUOROETHANE	12400	10500	16.6	±30

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE

9115

EKI Environment & Water, Inc.

CHAIN OF CUSTODY RECORD

Formerly known as Erler & Kalinowski, Inc. 577 Airport Blvd. Suite 500, Burlingame CA 94010-2023 www.ekiconsult.com PHONE: 650-292-9100 FAX: 650-552-9012

Project Name: The Residences at Shoreline Gateway

Project No.: B80116.00

Location: Mountain View, CA

Sampled By: Jacki Lee / Irma Marin

Reporting:
Electronic Format: NA Hard Copy Format: PDF
EPA Data Report Level: II
Please report results to the following people:
(1) Data Archive: labs@ekiconsult.com
(2) Michelle King: mking@ekiconsult.com
(3) James Yoon: jyoon@ekiconsult.com
(4) Jacki Lee: jlee@ekiconsult.com
(5) Irma Marin: imarin@ekiconsult.com

Laboratory:
K-Prime Laboratories, Inc.
3621 Westwind Boulevard
Santa Rosa, CA, USA 95403
(707) 527-7574

EKI COC No.: (YYYYMMDD-#) 20190419-1M1

ANALYSES REQUESTED

Method No.	TO-15	TO-3
Analyte Group	VOCs	Difluoroethane
	x	x

Field Sample Identification	Lab Sample No.	Date	Time	Matrix	No./Type of Containers	EXPECTED TURN-AROUND TIME	Canister/Manifold Serial Number
1001-SG-10	181758	4/19/2019	9:30	soil vapor	1 1-liter Summa	24 HR	ICS-237
1001-SG-11	181759	4/19/2019	9:06	soil vapor	1 1-liter Summa	24 HR	ICS-296

Revision: _____ (A, B, C, D, etc.) Date: By:

Special Instructions:
PROVIDE THE LOWEST AVAILABLE REPORTING LIMITS
Questions regarding COC, contact Jacki Lee (650) 759-2409

Relinquished by: Irma Marin	(Signature/Affiliation)	Date 4/19-19	Time 11:01	Received by: (Signature/Affiliation or Carrier/Air Bill No.)	4/19/19 11:01
Relinquished by:	(Signature/Affiliation)	Date 4/19/19	Time 16:36	Received by: (Signature/Affiliation) KPI	
Relinquished by:	(Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

TRANSMITTAL

DATE: 4/22/2019

TO: MS. MICHELLE KING
MR. JAMES YOON
MS. JACKI LEE
MS. IRMA MARIN
EKI ENVIRONMENT & WATER, INC.
577 AIRPORT BLVD, STE 500
BURLINGAME, CA 94010

Phone: 650-292-9100
Email: labs@ekiconsult.com
mkking@ekiconsult.com
jyoon@ekiconsult.com
jlee@ekiconsult.com
imarin@ekiconsult.com

ACCT: 9115
PROJ: B80116.00

FROM: Richard A. Kagel, Ph.D. RAK
Laboratory Director by AB
4/22/19

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT B80116.00

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
1001-SG-10-SHROUD	AIR	4/19/2019	9:30	181760
1001-SG-11-SHROUD	AIR	4/19/2019	9:06	181761

The above listed sample group was received on 4/19/2019 and tested as requested on the chain of custody document.

Please call me if you have any questions or need further information.
Thank you for this opportunity to be of service.

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

METHOD: 1,1-DIFLUOROETHANE
REFERENCE: EPA TO 3

UNITS: PPMV

SAMPLE ID	LAB NO.	SAMPLE TYPE	DATE SAMPLED	BATCH ID	DATE ANALYZED	MRL	SAMPLE CONC
1001-SG-10-SHROUD	181760	AIR	04/19/2019	041819A1	04/22/2019	10.0	4300
1001-SG-11-SHROUD	181761	AIR	04/19/2019	041819A1	04/22/2019	15.0	9350

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
MRL - METHOD REPORTING LIMIT

APPROVED BY: _____
DATE: 4/22/19

K PRIME, INC.
LABORATORY QC REPORT

METHOD BLANK ID: B041819A1
LAB CONTROL SAMPLE ID: L041819A1
LAB CONTROL DUPLICATE ID: D041819A1
BATCH ID: 041819A1

METHOD: 1,1-DIFLUOROETHANE
REFERENCE: EPA TO 3

SAMPLE TYPE: AIR
UNITS: PPM -V/V

METHOD BLANK

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
1,1-DIFLUOROETHANE	10.0	ND

ACCURACY (LAB CONTROL SAMPLE)

COMPOUND NAME	EXPECTED CONC	MEASURED CONC	PERCENT RECOVERY	LIMITS (PERCENT)
1,1-DIFLUOROETHANE	10000	12400	124	60-140

PRECISION (LAB CONTROL DUPLICATE)

COMPOUND NAME	SAMPLE RESULT	DUPLICATE RESULT	RPD (PERCENT)	LIMITS (PERCENT)
1,1-DIFLUOROETHANE	12400	10500	16.6	±30

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE

EKI Environment & Water, Inc.

CHAIN OF CUSTODY RECORD

9115

Formerly known as Erler & Kalinowski, Inc. 577 Airport Blvd. Suite 500, Burlingame CA 94010-2023 www.ekiconsult.com PHONE: 650-292-9100 FAX: 650-552-9012

Project Name: The Residences at Shoreline Gateway

Project No.: B80116.00

EKI COC No.: (YYYYMMDD-#) 20190419-IM2

Location: Mountain View, CA

Sampled By: Jacki Lee / Irma Marin

Reporting:
Electronic Format: NA Hard Copy Format: PDF
EPA Data Report Level: II
Please report results to the following people:
(1) Data Archive: labs@ekiconsult.com
(2) Michelle King: mking@ekiconsult.com
(3) James Yoon: jyoon@ekiconsult.com
(4) Jacki Lee: jlee@ekiconsult.com
(5) Irma Marin: imarin@ekiconsult.com

Laboratory:
K-Prime Laboratories, Inc.
3621 Westwind Boulevard
Santa Rosa, CA, USA 95403
(707) 527-7574

Revision: _____ (A, B, C, D, etc.)
Date: By:

ANALYSES REQUESTED

Field Sample Identification	Lab Sample No.	Date	Time	Matrix	No./Type of Containers	Method No. TO-3 / Analyte Group Difluoroethane	EXPECTED TURN-AROUND TIME	Canister/Manifold Serial Number
1001-SG-10-Shroud	181760	4/19/2019	9:30	soil vapor	1 1-liter Summa	x	24 HR	ICS-357
1001-SG-11-Shroud	181761	4/19/2019	9:06	soil vapor	1 1-liter Summa	x	24 HR	ICS-206

Special Instructions:

PROVIDE THE LOWEST AVAILABLE REPORTING LIMITS
Questions regarding COC, contact Jacki Lee (650) 759-2409

Relinquished by: Irma Marin	(Signature/Affiliation)	Date 4/19/19	Time 11:01	Received by: (Signature/Affiliation or Carrier/Air Bill No.)	4/19/19 11:01
Relinquished by:	(Signature/Affiliation)	Date 4/19/19	Time 16:36	Received by: (Signature/Affiliation)	KPI
Relinquished by:	(Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

TRANSMITTAL

DATE: 5/17/2019

TO: MS. MICHELLE KING
MR. JAMES YOON
MS. JACKI LEE
EKI ENVIRONMENT & WATER, INC.
577 AIRPORT BLVD, STE 500
BURLINGAME, CA 94010

Phone: 650-292-9100
Email: labs@ekiconsult.com
mkking@ekiconsult.com
jyoon@ekiconsult.com
jlee@ekiconsult.com

ACCT: 9115
PROJ: B80116.00

FROM: Richard A. Kagel, Ph.D. RAK
Laboratory Director by AB
5/17/19

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT B80116.00

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
1001-SG-03-2.5-3.0	SOIL	3/20/2019	12:50	180845
1001-SG-04-2.5-3.0	SOIL	3/20/2019	13:23	180847
1001-SG-06-2.5-3.0	SOIL	3/20/2019	11:25	180849
1001-SG-07-2.5-3.0	SOIL	3/20/2019	10:45	180851

The above listed sample group was received on 3/21/2019 and tested as requested on the chain of custody document.

Please call me if you have any questions or need further information.
Thank you for this opportunity to be of service.

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE ID: 1001-SG-03-2.5-3.0
LAB NO: 180845
DATE SAMPLED: 03/20/2019
TIME SAMPLED: 12:50
BATCH NO: 051319S1
DATE EXTRACTED: 05/16/2019
DATE ANALYZED: 05/16/2019

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.00	ND
BETA-BHC	319-85-7	2.00	ND
GAMMA-BHC (LINDANE)	58-89-9	2.00	ND
HEPTACHLOR	76-44-8	2.00	ND
DELTA-BHC	319-86-8	2.00	ND
ALDRIN	309-00-2	2.00	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.00	ND
ENDOSULFAN I	959-98-8	2.00	ND
4,4'-DDE	72-55-9	2.00	ND
DIELDRIN	60-57-1	2.00	ND
ENDRIN	72-20-8	2.00	ND
4,4'-DDD	72-54-8	2.00	2.53
ENDOSULFAN II	33213-65-9	2.00	ND
4,4'-DDT	50-29-3	2.00	3.03
ENDRIN ALDEHYDE	7421-93-4	2.00	ND
ENDOSULFAN SULFATE	1031-07-8	2.00	ND
ENDRIN KETONE	53494-70-5	2.00	ND
METHOXYCHLOR	72-43-5	2.00	ND
CHLORDANE	57-74-9	2.00	33.2
TOXAPHENE	8001-35-2	12.5	ND

SURROGATE RECOVERY	%
TCMX	87
DCBP	85

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: AB
DATE: 5/17/19

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE ID: 1001-SG-04-2.5-3.0
LAB NO: 180847
DATE SAMPLED: 03/20/2019
TIME SAMPLED: 13:23
BATCH NO: 051319S1
DATE EXTRACTED: 05/16/2019
DATE ANALYZED: 05/16/2019

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.00	ND
BETA-BHC	319-85-7	2.00	ND
GAMMA-BHC (LINDANE)	58-89-9	2.00	ND
HEPTACHLOR	76-44-8	2.00	ND
DELTA-BHC	319-86-8	2.00	ND
ALDRIN	309-00-2	2.00	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.00	ND
ENDOSULFAN I	959-98-8	2.00	ND
4,4'-DDE	72-55-9	2.00	4.96
DIELDRIN	60-57-1	2.00	ND
ENDRIN	72-20-8	2.00	ND
4,4'-DDD	72-54-8	2.00	ND
ENDOSULFAN II	33213-65-9	2.00	ND
4,4'-DDT	50-29-3	2.00	ND
ENDRIN ALDEHYDE	7421-93-4	2.00	ND
ENDOSULFAN SULFATE	1031-07-8	2.00	ND
ENDRIN KETONE	53494-70-5	2.00	ND
METHOXYCHLOR	72-43-5	2.00	ND
CHLORDANE	57-74-9	2.00	ND
TOXAPHENE	8001-35-2	12.5	ND

SURROGATE RECOVERY	%
TCMX	94
DCBP	133

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: AB
DATE: 5/17/19

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE ID: 1001-SG-06-2.5-3.0
LAB NO: 180849
DATE SAMPLED: 03/20/2019
TIME SAMPLED: 11:25
BATCH NO: 051319S1
DATE EXTRACTED: 05/16/2019
DATE ANALYZED: 05/16/2019

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.00	ND
BETA-BHC	319-85-7	2.00	ND
GAMMA-BHC (LINDANE)	58-89-9	2.00	ND
HEPTACHLOR	76-44-8	2.00	ND
DELTA-BHC	319-86-8	2.00	ND
ALDRIN	309-00-2	2.00	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.00	ND
ENDOSULFAN I	959-98-8	2.00	ND
4,4'-DDE	72-55-9	2.00	ND
DIELDRIN	60-57-1	2.00	ND
ENDRIN	72-20-8	2.00	ND
4,4'-DDD	72-54-8	2.00	ND
ENDOSULFAN II	33213-65-9	2.00	ND
4,4'-DDT	50-29-3	2.00	ND
ENDRIN ALDEHYDE	7421-93-4	2.00	ND
ENDOSULFAN SULFATE	1031-07-8	2.00	ND
ENDRIN KETONE	53494-70-5	2.00	ND
METHOXYCHLOR	72-43-5	2.00	ND
CHLORDANE	57-74-9	2.00	ND
TOXAPHENE	8001-35-2	12.5	ND

SURROGATE RECOVERY	%
TCMX	97
DCBP	100

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: AB
DATE: 5/17/19

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE ID: 1001-SG-07-2.5-3.0
LAB NO: 180851
DATE SAMPLED: 03/20/2019
TIME SAMPLED: 10:45
BATCH NO: 051319S1
DATE EXTRACTED: 05/16/2019
DATE ANALYZED: 05/16/2019

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.00	ND
BETA-BHC	319-85-7	2.00	ND
GAMMA-BHC (LINDANE)	58-89-9	2.00	ND
HEPTACHLOR	76-44-8	2.00	ND
DELTA-BHC	319-86-8	2.00	ND
ALDRIN	309-00-2	2.00	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.00	ND
ENDOSULFAN I	959-98-8	2.00	6.98
4,4'-DDE	72-55-9	2.00	58.2
DIELDRIN	60-57-1	2.00	8.71
ENDRIN	72-20-8	2.00	ND
4,4'-DDD	72-54-8	2.00	14.4
ENDOSULFAN II	33213-65-9	2.00	ND
4,4'-DDT	50-29-3	2.00	27.8
ENDRIN ALDEHYDE	7421-93-4	2.00	ND
ENDOSULFAN SULFATE	1031-07-8	2.00	ND
ENDRIN KETONE	53494-70-5	2.00	ND
METHOXYCHLOR	72-43-5	2.00	ND
CHLORDANE	57-74-9	2.00	186
TOXAPHENE	8001-35-2	12.5	ND

SURROGATE RECOVERY	%
TCMX	82
DCBP	130

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: AB
DATE: 5/17/19

K PRIME, INC.
LABORATORY REPORT

METHOD: TOTAL ARSENIC
REFERENCE: EPA 3050B/6020/6020A

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE TYPE: SOIL
UNITS: mg/kg

SAMPLE ID	LAB ID	BATCH #	DATE SAMPLED	DATE ANALYZED	REPORTING LIMIT	SAMPLE CONC
1001-SG-03-2.5-3.0	180845	051319S1	03/20/2019	05/17/2019	2.50	3.90
1001-SG-04-2.5-3.0	180847	051319S1	03/20/2019	05/17/2019	2.50	ND
1001-SG-06-2.5-3.0	180849	051319S1	03/20/2019	05/17/2019	2.50	2.53
1001-SG-07-2.5-3.0	180851	051319S1	03/20/2019	05/17/2019	2.50	3.53

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: (W)

DATE: 5/17/19

K PRIME, INC.
LABORATORY REPORT

METHOD: TOTAL LEAD
REFERENCE: EPA 3050B/6020/6020A

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE TYPE: SOIL
UNITS: mg/kg

SAMPLE ID	LAB ID	BATCH #	DATE SAMPLED	DATE ANALYZED	REPORTING LIMIT	SAMPLE CONC
1001-SG-03-2.5-3.0	180845	051319S1	03/20/2019	05/17/2019	2.50	10.9
1001-SG-04-2.5-3.0	180847	051319S1	03/20/2019	05/17/2019	2.50	9.12
1001-SG-06-2.5-3.0	180849	051319S1	03/20/2019	05/17/2019	2.50	13.3
1001-SG-07-2.5-3.0	180851	051319S1	03/20/2019	05/17/2019	2.50	54.8

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: (R)

DATE: 5/17/19

K PRIME, INC.
LABORATORY BATCH QC REPORT

METHOD BLANK ID: B051319S1
BATCH NO: 051319S1
DATE EXTRACTED: 05/13/2019
DATE ANALYZED: 05/13/2019

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.00	ND
BETA-BHC	319-85-7	2.00	ND
GAMMA-BHC (LINDANE)	58-89-9	2.00	ND
HEPTACHLOR	76-44-8	2.00	ND
DELTA-BHC	319-86-8	2.00	ND
ALDRIN	309-00-2	2.00	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.00	ND
ENDOSULFAN I	959-98-8	2.00	ND
4,4'-DDE	72-55-9	2.00	ND
DIELDRIN	60-57-1	2.00	ND
ENDRIN	72-20-8	2.00	ND
4,4'-DDD	72-54-8	2.00	ND
ENDOSULFAN II	33213-65-9	2.00	ND
4,4'-DDT	50-29-3	2.00	ND
ENDRIN ALDEHYDE	7421-93-4	2.00	ND
ENDOSULFAN SULFATE	1031-07-8	2.00	ND
METHOXYCHLOR	72-43-5	2.00	ND
CHLORDANE	57-74-9	2.00	ND
TOXAPHENE	8001-35-2	12.5	ND

SURROGATE RECOVERY	%
TCMX	83
DCBP	132

NOTES:
ND - NOT DETECTED ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

K PRIME, INC.
LABORATORY BATCH QC REPORT

SAMPLE ID: B051319S1
SPIKE ID: L051319S1
DUPLICATE ID: D051319S1
BATCH NO: 051319S1
DATE EXTRACTED: 05/13/2019
DATE ANALYZED: 05/13/2019

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

ACCURACY (MATRIX SPIKE)

COMPOUND NAME	SPIKE ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
GAMMA-BHC (LINDANE)	125	ND	79.2	63	50-150
HEPTACHLOR	125	ND	84.4	68	50-150
ALDRIN	125	ND	82.9	66	50-150
DIELDRIN	125	ND	97.5	78	50-150
ENDRIN	125	ND	70.2	56	50-150
DDT	125	ND	105	84	50-150

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
GAMMA-BHC (LINDANE)	2.00	79.2	81.6	3.0	±40
HEPTACHLOR	2.00	84.4	84.1	0.4	±40
ALDRIN	2.00	82.9	83.2	0.4	±40
DIELDRIN	2.00	97.5	115	16.4	±40
ENDRIN	2.00	70.2	71.5	1.9	±40
DDT	2.00	105	96.9	8.5	±40

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

K PRIME, INC.

LABORATORY BATCH QC REPORT

SAMPLE ID: L051319S1
DUPLICATE ID: D051319S1
METHOD BLANK ID: B051619S1
BATCH #: 051319S1
DATE ANALYZED: 05/13/2019

METHOD: TOTAL METALS BY ICP/MS
REFERENCE: EPA 3050B/6020/6020A

SAMPLE TYPE: SOIL
UNITS: mg/kg

ELEMENT		MB mg/kg	SA mg/kg	SR mg/kg	SP mg/kg	SPD mg/kg	SP %R	RPD %
ARSENIC	As	<2.50	25.0	0.0	23.7	24.6	95	3.5
LEAD	Pb	<2.50	25.0	0.0	22.2	22.4	89	1.2

NOTES:
ND: NOT DETECTED
MB: METHOD BLANK
SA: SPIKE ADDED
SR: SAMPLE RESULT
SP: SPIKE RESULT
SPD: SPIKE DUPLICATE RESULT
SP(%R): SPIKE % RECOVERY
RPD: RELATIVE PERCENT DIFFERENCE
NC: NOT CALCULATED DUE TO RELATIVE CONCENTRATIONS

EKI Environment & Water, Inc. — CHAIN OF CUSTODY RECORD

9115

PAGE 1 OF 1

Formerly known as Erler & Kalinowski, Inc. | 577 Airport Blvd. Suite 500, Burlingame CA 94010-2023 | www.ekiconsult.com | PHONE: 650-292-9100 | FAX: 650-552-9012

Project Name: The Residences at Shoreline Gateway
Project No.: B80116.00
Location: Mountain View, CA
Sampled By: Jacki Lee / Priscilla DeJesus
Laboratory: K-Prime Laboratories, Inc.
3621 Westwind Boulevard
Santa Rosa, CA. USA 95403
(707) 527-7574

Reporting:
Electronic Format: NA Hard Copy Format: PDF
EPA Data Report Level: II Report as: Dry Weight
Please report results to the following people:
(1) Data Archive: labs@ekiconsult.com
(2) Michelle King: mking@ekiconsult.com
(3) James Yoon: jyoon@ekiconsult.com
(4) Jacki Lee: jlee@ekiconsult.com

EKI COC No.: (YYYYMMDD-#)
Revision: _____ (A, B, C, D, etc.) Date: By:

ANALYSES REQUESTED

Field Sample Identification	Lab Sample No.	Date	Time	Matrix	No./Type of Containers	Method No. EPA 6081A Analyte Group Organochlorine Pesticides	EPA 6020 Arsenic & Lead	HOLD	EXPECTED TURN-AROUND TIME	REMARKS
1001-SG-01-0.5-1.0	180840	3/20/19	14:10	soil	1 - 8 oz. jar	x	x		5-day	
1001-SG-01-2.5-3.0	180841	3/20/19	14:17	soil	1 - 8 oz. jar			x		Hold per
1001-SG-02-0.5-1.0	180842	3/20/19	14:55	soil	1 - 8 oz. jar	x	x	X	~~STANDARD~~	HOLD
1001-SG-02-2.5-3.0	180843	3/20/19	15:00	soil	1 - 8 oz. jar			x		HOLD
1001-SG-03-0.5-1.0	180844	3/20/19	12:45	soil	1 - 8 oz. jar	x	x		5-day	
1001-SG-03-2.5-3.0	180845	3/20/19	12:50	soil	1 - 8 oz. jar	X	X	x		**SAMPLES
1001-SG-04-0.5-1.0	180846	3/20/19	13:15	soil	1 - 8 oz. jar	x	x		5-day	OFF HOLD.
1001-SG-04-2.5-3.0	180847	3/20/19	13:23	soil	1 - 8 oz. jar	X	X	x		ANALYZE ON
1001-SG-06-0.5-1.0	180848	3/20/19	11:20	soil	1 - 8 oz. jar	x	x		5-day	A 24HR TAT
1001-SG-06-2.5-3.0	180849	3/20/19	11:25	soil	1 - 8 oz. jar	X	X	x		PER JAMES
1001-SG-07-0.5-1.0	180850	3/20/19	10:35	soil	1 - 8 oz. jar	x	x		5-day	YOON.
1001-SG-07-2.5-3.0	180851	3/20/19	10:45	soil	1 - 8 oz. jar	X	X	x		5/16/19 (BD)
1001-SG-08-0.5-1.0	180852	3/20/19	9:44	soil	1 - 8 oz. jar	x	x		5-day	
1001-SG-08-2.5-3.0	180853	3/20/19	9:59	soil	1 - 8 oz. jar			x		
1001-SG-09-0.5-1.0	180854	3/20/19	8:45	soil	1 - 8 oz. jar	x	x		5-day	
1001-SG-09-2.5-3.0	180855	3/20/19	3:48	soil	1 - 8 oz. jar			x		

Special Instructions:
Questions regarding COC, contact sampler, Jacki Lee (650) 292-9136 or Priscilla DeJesus (650) 292-9104

Relinquished by:	(Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation or Carrier/Air Bill No.)
Priscilla DeJesus		03/21/2019	1680	
Relinquished by:	(Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)
	RESWE	03/21/2019	19:15	Amanda Benson
Relinquished by:	(Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)

N. Shoreline COCs v2.xlsx

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

TRANSMITTAL

DATE: 5/17/2019

TO: MS. MICHELLE KING
MR. JAMES YOON
MS. JACKIE LEE
EKI ENVIRONMENT & WATER, INC.
577 AIRPORT BLVD, STE 500
BURLINGAME, CA 94010

Phone: 650-292-9100
Email: labs@ekiconsult.com
mkking@ekiconsult.com
jyoon@ekiconsult.com
jlee@ekiconsult.com

ACCT: 9115
PROJ: B80116.00

FROM: Richard A. Kagel, Ph.D. RAK
Laboratory Director by AB
5/17/19

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT B80116.00

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
1001-BH-02-2.5-3.0	SOIL	3/22/2019	7:55	180925
1001-BH-04-2.5-3.0	SOIL	3/22/2019	9:05	180927
1001-BH-05-2.5-3.0	SOIL	3/22/2019	8:40	180929

The above listed sample group was received on 3/25/2019 and tested as requested on the chain of custody document.

Please call me if you have any questions or need further information.
Thank you for this opportunity to be of service.

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE ID: 1001-BH-02-2.5-3.0
LAB NO: 180925
DATE SAMPLED: 03/22/2019
TIME SAMPLED: 7:55
BATCH NO: 051319S1
DATE EXTRACTED: 05/16/2019
DATE ANALYZED: 05/16/2019

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.00	ND
BETA-BHC	319-85-7	2.00	ND
GAMMA-BHC (LINDANE)	58-89-9	2.00	ND
HEPTACHLOR	76-44-8	2.00	ND
DELTA-BHC	319-86-8	2.00	ND
ALDRIN	309-00-2	2.00	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.00	ND
ENDOSULFAN I	959-98-8	2.00	ND
4,4'-DDE	72-55-9	2.00	ND
DIELDRIN	60-57-1	2.00	ND
ENDRIN	72-20-8	2.00	ND
4,4'-DDD	72-54-8	2.00	ND
ENDOSULFAN II	33213-65-9	2.00	ND
4,4'-DDT	50-29-3	2.00	2.19
ENDRIN ALDEHYDE	7421-93-4	2.00	ND
ENDOSULFAN SULFATE	1031-07-8	2.00	ND
ENDRIN KETONE	53494-70-5	2.00	ND
METHOXYCHLOR	72-43-5	2.00	ND
CHLORDANE	57-74-9	2.00	2.22
TOXAPHENE	8001-35-2	12.5	ND

SURROGATE RECOVERY	%
TCMX	95
DCBP	134

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: AB
DATE: 5/17/19

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE ID: 1001-BH-04-2.5-3.0
LAB NO: 180927
DATE SAMPLED: 03/22/2019
TIME SAMPLED: 9:05
BATCH NO: 051319S1
DATE EXTRACTED: 05/16/2019
DATE ANALYZED: 05/16/2019

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.00	ND
BETA-BHC	319-85-7	2.00	ND
GAMMA-BHC (LINDANE)	58-89-9	2.00	ND
HEPTACHLOR	76-44-8	2.00	ND
DELTA-BHC	319-86-8	2.00	ND
ALDRIN	309-00-2	2.00	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.00	ND
ENDOSULFAN I	959-98-8	2.00	ND
4,4'-DDE	72-55-9	2.00	ND
DIELDRIN	60-57-1	2.00	ND
ENDRIN	72-20-8	2.00	ND
4,4'-DDD	72-54-8	2.00	ND
ENDOSULFAN II	33213-65-9	2.00	ND
4,4'-DDT	50-29-3	2.00	ND
ENDRIN ALDEHYDE	7421-93-4	2.00	ND
ENDOSULFAN SULFATE	1031-07-8	2.00	ND
ENDRIN KETONE	53494-70-5	2.00	ND
METHOXYCHLOR	72-43-5	2.00	ND
CHLORDANE	57-74-9	2.00	ND
TOXAPHENE	8001-35-2	12.5	ND

SURROGATE RECOVERY	%
TCMX	84
DCBP	117

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: AB
DATE: 5/17/19

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE ID: 1001-BH-05-2.5-3.0
LAB NO: 180929
DATE SAMPLED: 03/22/2019
TIME SAMPLED: 8:40
BATCH NO: 051319S1
DATE EXTRACTED: 05/16/2019
DATE ANALYZED: 05/16/2019

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.00	ND
BETA-BHC	319-85-7	2.00	ND
GAMMA-BHC (LINDANE)	58-89-9	2.00	ND
HEPTACHLOR	76-44-8	2.00	ND
DELTA-BHC	319-86-8	2.00	ND
ALDRIN	309-00-2	2.00	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.00	ND
ENDOSULFAN I	959-98-8	2.00	ND
4,4'-DDE	72-55-9	2.00	5.41
DIELDRIN	60-57-1	2.00	ND
ENDRIN	72-20-8	2.00	ND
4,4'-DDD	72-54-8	2.00	2.22
ENDOSULFAN II	33213-65-9	2.00	ND
4,4'-DDT	50-29-3	2.00	ND
ENDRIN ALDEHYDE	7421-93-4	2.00	ND
ENDOSULFAN SULFATE	1031-07-8	2.00	ND
ENDRIN KETONE	53494-70-5	2.00	ND
METHOXYCHLOR	72-43-5	2.00	ND
CHLORDANE	57-74-9	2.00	ND
TOXAPHENE	8001-35-2	12.5	ND

SURROGATE RECOVERY	%
TCMX	91
DCBP	119

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: AB
DATE: 5/17/19

K PRIME, INC.
LABORATORY REPORT

METHOD: TOTAL ARSENIC
REFERENCE: EPA 3050B/6020/6020A

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE TYPE: SOIL
UNITS: mg/kg

SAMPLE ID	LAB ID	BATCH #	DATE SAMPLED	DATE ANALYZED	REPORTING LIMIT	SAMPLE CONC
1001-BH-02-2.5-3.0	180925	051319S1	03/22/2019	05/17/2019	2.50	ND
1001-BH-04-2.5-3.0	180927	051319S1	03/22/2019	05/17/2019	2.50	ND
1001-BH-05-2.5-3.0	180929	051319S1	03/22/2019	05/17/2019	2.50	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: (N)
DATE: 5/17/19

K PRIME, INC.
LABORATORY REPORT

METHOD: TOTAL LEAD
REFERENCE: EPA 3050B/6020/6020A

K PRIME PROJECT: 9115
CLIENT PROJECT: B80116.00

SAMPLE TYPE: SOIL
UNITS: mg/kg

SAMPLE ID	LAB ID	BATCH #	DATE SAMPLED	DATE ANALYZED	REPORTING LIMIT	SAMPLE CONC
1001-BH-02-2.5-3.0	180925	051319S1	03/22/2019	05/17/2019	2.50	6.48
1001-BH-04-2.5-3.0	180927	051319S1	03/22/2019	05/17/2019	2.50	6.29
1001-BH-05-2.5-3.0	180929	051319S1	03/22/2019	05/17/2019	2.50	14.6

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: (N)
DATE: 5/17/19

K PRIME, INC.
LABORATORY BATCH QC REPORT

METHOD BLANK ID: B051319S1
BATCH NO: 051319S1
DATE EXTRACTED: 05/13/2019
DATE ANALYZED: 05/13/2019

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.00	ND
BETA-BHC	319-85-7	2.00	ND
GAMMA-BHC (LINDANE)	58-89-9	2.00	ND
HEPTACHLOR	76-44-8	2.00	ND
DELTA-BHC	319-86-8	2.00	ND
ALDRIN	309-00-2	2.00	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.00	ND
ENDOSULFAN I	959-98-8	2.00	ND
4,4'-DDE	72-55-9	2.00	ND
DIELDRIN	60-57-1	2.00	ND
ENDRIN	72-20-8	2.00	ND
4,4'-DDD	72-54-8	2.00	ND
ENDOSULFAN II	33213-65-9	2.00	ND
4,4'-DDT	50-29-3	2.00	ND
ENDRIN ALDEHYDE	7421-93-4	2.00	ND
ENDOSULFAN SULFATE	1031-07-8	2.00	ND
METHOXYCHLOR	72-43-5	2.00	ND
CHLORDANE	57-74-9	2.00	ND
TOXAPHENE	8001-35-2	12.5	ND

SURROGATE RECOVERY	%
TCMX	83
DCBP	132

NOTES:
ND - NOT DETECTED ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

K PRIME, INC.
LABORATORY BATCH QC REPORT

SAMPLE ID: B051319S1
SPIKE ID: L051319S1
DUPLICATE ID: D051319S1
BATCH NO: 051319S1
DATE EXTRACTED: 05/13/2019
DATE ANALYZED: 05/13/2019

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

ACCURACY (MATRIX SPIKE)

COMPOUND NAME	SPIKE ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
GAMMA-BHC (LINDANE)	125	ND	79.2	63	50-150
HEPTACHLOR	125	ND	84.4	68	50-150
ALDRIN	125	ND	82.9	66	50-150
DIELDRIN	125	ND	97.5	78	50-150
ENDRIN	125	ND	70.2	56	50-150
DDT	125	ND	105	84	50-150

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
GAMMA-BHC (LINDANE)	2.00	79.2	81.6	3.0	±40
HEPTACHLOR	2.00	84.4	84.1	0.4	±40
ALDRIN	2.00	82.9	83.2	0.4	±40
DIELDRIN	2.00	97.5	115	16.4	±40
ENDRIN	2.00	70.2	71.5	1.9	±40
DDT	2.00	105	96.9	8.5	±40

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

K PRIME, INC.

LABORATORY BATCH QC REPORT

SAMPLE ID: L051319S1
DUPLICATE ID: D051319S1
METHOD BLANK ID: B051619S1
BATCH #: 051319S1
DATE ANALYZED: 05/13/2019

METHOD: TOTAL METALS BY ICP/MS
REFERENCE: EPA 3050B/6020/6020A

SAMPLE TYPE: SOIL
UNITS: mg/kg

ELEMENT		MB mg/kg	SA mg/kg	SR mg/kg	SP mg/kg	SPD mg/kg	SP %R	RPD %
ARSENIC	As	<2.50	25.0	0.0	23.7	24.6	95	3.5
LEAD	Pb	<2.50	25.0	0.0	22.2	22.4	89	1.2

NOTES:
ND: NOT DETECTED
MB: METHOD BLANK
SA: SPIKE ADDED
SR: SAMPLE RESULT
SP: SPIKE RESULT
SPD: SPIKE DUPLICATE RESULT
SP(%R): SPIKE % RECOVERY
RPD: RELATIVE PERCENT DIFFERENCE
NC: NOT CALCULATED DUE TO RELATIVE CONCENTRATIONS

9115

EKI Environment & Water, Inc.

CHAIN OF CUSTODY RECORD

Formerly known as Erler & Kalinowski, Inc. 577 Airport Blvd. Suite 500, Burlingame CA 94010-2023 www.ekiconsult.com PHONE: 650-292-9100 FAX: 650-552-9012

Project Name: The Residences at Shoreline Gateway

Project No.: B80116.00

Location: Mountain View, CA

Sampled By: Jacki Lee / Priscilla DeJesus

Reporting:
Electronic Format: NA Hard Copy Format: PDF
EPA Data Report Level: II Report as: Dry Weight
Please report results to the following people:
(1) Data Archive: lab@ekiconsult.com
(2) Michelle King: mking@ekiconsult.com
(3) James Yoon: jyoon@ekiconsult.com
(4) Jacki Lee: jlee@ekiconsult.com

Laboratory:
K-Prime Laboratories, Inc.
3621 Westwind Boulevard
Santa Rosa, CA, USA 95403
(707) 527-7574

EKI COC No.: (YYYYMMDD-#) 2019-0322-JAL3

Revision _____ (A, B, C, D, etc.) Date By

Field Sample Identification	Lab Sample No.	Date	Time	Matrix	No./Type of Containers	** EPA 8081A Organochlorine Pesticides	** EPA 6020 Arsenic & Lead	EPA 8082 PCBs	HOLD	EXPECTED TURN-AROUND TIME	REMARKS
1001-BH-01-0.5-1.0	180922	3/22/2019	9:30	soil	1 - 8 oz. jar	x	x			~~STANDARD~~ 2 5-day	
1001-BH-01-2.5-3.0	180923	3/22/2019	9:35	soil	1 - 8 oz. jar				x		
1001-BH-02-0.5-1.0	180924	3/22/2019	7:45	soil	1 - 8 oz. jar	x	x			~~STANDARD~~ 2 5-day	
1001-BH-02-2.5-3.0	180925	3/22/2019	7:55	soil	1 - 8 oz. jar	X	X		x		
1001-BH-04-0.5-1.0	180926	3/22/2019	9:00	soil	1 - 8 oz. jar	x	x			~~STANDARD~~ 2 5-day	
1001-BH-04-2.5-3.0	180927	3/22/2019	9:05	soil	1 - 8 oz. jar	X	X		x		
1001-BH-05-0.5-1.0	180928	3/22/2019	8:35	soil	1 - 8 oz. jar	x	x			~~STANDARD~~ 2 5-day	
1001-BH-05-2.5-3.0	180929	3/22/2019	8:40	soil	1 - 8 oz. jar	X	X		x		
1001-BH-06-0.5-1.0	180930	3/22/2019	8:05	soil	1 - 8 oz. jar			x		~~STANDARD~~ 2 5-day	
1001-BH-06-2.5-3.0	180931	3/22/2019	8:10	soil	1 - 8 oz. jar			x		~~STANDARD~~ 2 5-day	
1001-BH-3-0.5-1.0	180932	3/23/19	12:15	SOIL	"	X	X			~~STD~~ 2D 5-day	
1001-BH-3-2.5-3.0	180933	3/23/19	12:30	SOIL	"				X		

Special Instructions: ** SAMPLES OFF HOLD. PLEASE ANALYZE ON A 24 HR TAT PER JAMES YOON. - JAL 3/26/19

Questions regarding COC, contact sampler, Jacki Lee (650) 292-9136 or Priscilla DeJesus (650) 292-9104

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation or Courier/Air Bill No.)
Jacki Lee	3/25/2019	11:35	
Jacki Lee	3/25/19	13:41	KPI

9115

EKI Environment & Water, Inc.

CHAIN OF CUSTODY RECORD

Formerly known as Erler & Kalinowski, Inc. 577 Airport Blvd. Suite 500, Burlingame CA 94010-2023 www.ekiconsult.com PHONE: 650-292-9100 FAX: 650-552-9012

Project Name: The Residences at Shoreline Gateway

Project No.: B80116.00

Location: Mountain View, CA

Sampled By: Jacki Lee / Priscilla DeJesus

Reporting:
Electronic Format: NA Hard Copy Format: PDF
EPA Data Report Level: II Report as: Dry Weight
Please report results to the following people:
(1) Data Archive: labs@ekiconsult.com
(2) Michelle King: mking@ekiconsult.com
(3) James Yoon: jyoon@ekiconsult.com
(4) Jacki Lee: jlee@ekiconsult.com

Laboratory:
K-Prime Laboratories, Inc.
3621 Westwind Boulevard
Santa Rosa, CA, USA 95403
(707) 527-7574

EKI COC No.: (YYYYMMDD-#) 2019-0322-JAL3

Revision: _____ (A, B, C, D, etc.) Date: By

Field Sample Identification	Lab Sample No.	Date	Time	Matrix	No./Type of Containers	Method No. / Analyte Group: EPA 8081A Organochlorine Pesticides	EPA 6020 Arsenic & Lead	EPA 8082 PCBs	HOLD	EXPECTED TURN-AROUND TIME	REMARKS
1001-BH-01-0.5-1.0	180922	3/22/2019	9:30	soil	1 - 8 oz. jar	x	x			~~STANDARD~~	5-day
1001-BH-01-2.5-3.0	180923	3/22/2019	9:35	soil	1 - 8 oz. jar				x		
1001-BH-02-0.5-1.0	180924	3/22/2019	7:45	soil	1 - 8 oz. jar	x	x			~~STANDARD~~	5-day
1001-BH-02-2.5-3.0	180925	3/22/2019	7:55	soil	1 - 8 oz. jar				x		
1001-BH-04-0.5-1.0	180926	3/22/2019	9:00	soil	1 - 8 oz. jar	x	x			~~STANDARD~~	5-day
1001-BH-04-2.5-3.0	180927	3/22/2019	9:05	soil	1 - 8 oz. jar				x		
1001-BH-05-0.5-1.0	180928	3/22/2019	8:35	soil	1 - 8 oz. jar	x	x			~~STANDARD~~	5-day
1001-BH-05-2.5-3.0	180929	3/22/2019	8:40	soil	1 - 8 oz. jar				x		
1001-BH-06-0.5-1.0	180930	3/22/2019	8:05	soil	1 - 8 oz. jar			x		~~STANDARD~~	5-day
1001-BH-06-2.5-3.0	180931	3/22/2019	8:10	soil	1 - 8 oz. jar			x		~~STANDARD~~	5-day
1001-BH-3-0.5-1.0	180932	3/23/19	12:15	SOIL	11	x	x			~~STD~~ 2D	5-day
1001-BH-3-2.5-3.0	180933	3/23/19	12:30	SOIL	"				x		

Special Instructions:

Questions regarding COC, contact sampler, Jacki Lee (650) 292-9136 or Priscilla DeJesus (650) 292-9104

Relinquished by: Jacki Lee (Signature/Affiliation)	Date: 3/25/2019	Time: 11:35	Received by: (Signature/Affiliation or Carrier/Air Bill No.)
Relinquished by: (Signature/Affiliation)	Date: 3/25/19	Time: 13:41	Received by: (Signature/Affiliation) KPI
Relinquished by: (Signature/Affiliation)	Date:	Time:	Received by: (Signature/Affiliation)

CORNERSTONE EARTH GROUP

Date:	May 8, 2019
Project No.:	1014-1-1
Prepared For:	Ms. Elizabeth Kanner, Senior Managing Associate Ms. Jill Feyk-Miney, Senior Associate **ENVIRONMENTAL SCIENCE ASSOCIATES** 550 Kearney Street, Suite 800 San Francisco, California 94108
Re:	**Peer Review Letter** *Draft Phase I Environmental Site Assessment and Phase II Subsurface Investigation* 1001 North Shoreline Boulevard Mountain View, California

Dear Ms. Kanner and Ms. Feyk-Miney:

Per your request, Cornerstone Earth Group, Inc. (Cornerstone) is pleased to present this Peer Review Letter of the Draft *Phase I Environmental Site Assessment* (Phase I ESA) *and Phase II Subsurface Investigation* (Phase II Investigation), *1001 North Shoreline Boulevard, Mountain View, California* prepared by eki environment & water (EKI), dated April 25, 2019.

General Comments

1) Based on prior discussions with ESA, the City, Project Applicant and EKI, on March 6, 2019, Cornerstone recommended the following for a Phase II Investigation proposed by the Project Applicant and their Environmental Consultant, EKI:

    a. Cornerstone to review the EKI sampling locations to evaluate if they are appropriately located to known and other potential areas of concern.
    b. EKI to prepare a Work Plan detailing sampling protocols and laboratory test methods; Cornerstone to review prior to EKI mobilizing to perform the field work.
    c. EKI to perform ground water sampling in conjunction with soil vapor sampling as this data would be helpful in evaluating the protocols for handling ground water during construction, designing a vapor mitigation system, and preparing CEQA mitigation measures.

2) EKI prepared a Work Plan, entitled *Work Plan for Subsurface Investigation, 1001 North Shoreline Boulevard, Mountain View, California*, dated March 12, 2019.

    a. On March 19, 2019, Cornerstone approved the Work Plan with a request that a shallow soil sample be collected at a former on-Site structure that may have been a greenhouse and/or a structure

with lead-based paint. In addition, per verbal communication with EKI, Cornerstone confirmed that the soil sampling depth would be approximately ½ foot beneath the native soil surface, the layer most likely impacted by historical agricultural activities and most likely impacted by flaking lead-based paint and/or termite control pesticides.

3) The EKI Draft *Phase I Environmental Site Assessment* (Phase I ESA) *and Phase II Subsurface Investigation* (Phase II Investigation), *1001 North Shoreline Boulevard, Mountain View, California* was performed in general compliance with the Work Plan and Cornerstone's request for an additional soil sample location.

   Cornerstone provides the following comments:

   a. Per the Geotechnical Investigation (Cornerstone 2014), approximately 1 to 2 feet of undocumented fill consisting of fat clay mixed with varying percentages of gravel and sand was observed beneath the surface asphaltic concrete pavement. Section 3.2 of the Phase I ESA and Phase II Investigation report (EKI 2019) also describes 1 to 2 feet of sand beneath the asphalt surface. These materials likely do not represent native soils; these materials likely represent fill imported to the Site for the original Site commercial development.

      Per Section 9.2.1 of the Phase I ESA and Phase II Investigation report, "EKI collected soil samples from intervals of 0.5 to 1.0 foot bgs [below ground surface]" [1]. In our opinion, this sampling depth may not represent soil historically used for agricultural activities and may not represent soil potentially impacted by lead-based paint or termite control pesticides. We recommend that EKI analyze the surface of native soils or provide rationale that the fill material was historically used for agricultural activity and likely representative of soil that may be impacted by lead-based paint or termite control pesticides.

   b. Polychlorinated biphenyl (PCBs) were detected at a concentration of 0.622 mg/kg at a former transformer pad. EKI compared this detection to the High Occupancy Use Cleanup Level of 1 milligram per kilogram (mg/kg) established in the Toxic Substances Control Act (TSCA). Based on our experience working with US EPA on PCB soil remediation projects, it's our opinion that the US EPA Residential Regional Screening Level (0.24 mg/kg)[2] is the more appropriate screening level.

   c. Investigative-derived wastes were profiled for removal. The Project Applicant shall provide documentation that these waste

[1] Cornerstone does accept the approximate ½ to 1-foot sampling depth, but the sampling depth should be measured from the surface of native soil and not pavement.

[2] November 2018.

materials have been appropriately disposed off-Site.

d. The Phase I ESA and Phase II Investigation report provides limited recommendations. Cornerstone provides more detailed recommendations below.

Recommendations

Implementation of mitigation measures would help provide that workers, the general public and future residents would not be exposed to unacceptable levels of VOCs. Cornerstone recommends the following mitigation measures for the proposed residential development:

- The Site is impacted by a release of VOCs above regulatory limits, mainly TCE, the source of which appears to be from a nearby, up-gradient property. The Project Applicant and subsequent Site owners and occupants shall cooperate with the Santa Clara County Department of Environmental Health (DEH - the lead oversight agency), the San Francisco Bay Regional Water Quality Control Board (Water Board) and any other state or local oversight agency for the on-going investigation and, if necessary, remediation/mitigation activities at the Site as well as the implementation of the vapor intrusion remedy. In addition, the Project Applicant and subsequent Site owners and occupants shall provide access for future indoor air and soil vapor monitoring activities that may be required and shall not interfere with the implementation of remedies selected by the DEH, the Water Board and responsible parties. These requirements shall be specified in Covenants, Conditions and Restrictions that shall run with the property.

- The Project Applicant shall prepare (and obtain DEH written approval) a Soil Management Plan and Air Monitoring Plan (SMP) that shall include:

    - Protocols and procedures for determining when soil and air sampling and analytical testing should be performed.

    - Monitoring of vapors during excavation and grading activities.

        - NIOSH/MSHA-approved respirators equipped with combination organic vapor and P-100 HEPA air purifying cartridges are required for workers entering excavations and trenches approximately 5 feet or deeper.

        - If respirators are no longer desired to be worn by workers entering excavations, the sampling or screening for TCE shall be conducted by either (1) sampling air in the excavation or collecting personal air samples using TCE sampling badges (e.g., Radiello 130 or Radiello 145 samplers or equivalent) or (2) screening air in the excavation using a portable GC-MS (e.g., Hapsite GC-MS or equivalent). Sampling or screening for TCE shall be conducted for a minimum period of one full work day within representative source areas. Air samples shall be analyzed and reported on a 24-hour turnaround time and screening with a portable GC-MS shall be conducted, at a minimum, on an hourly basis.

        - If sampling or screening data collected over a minimum period of one full work day demonstrates that TCE is either (1) below a reporting limit of

5 µg/m^3 in the excavation or (2) is present in the excavation at concentrations less than the EPA's Accelerated Response Action Level (7 µg/m^3), the use of respiratory protection during excavation entry may be discontinued, and the Contractor may terminate sampling or screening for TCE[3]. Personnel entering the excavation will resume using respiratory protection and the Contractor will resume sampling or screening for TCE if any of the following conditions occur:

  - Ground water begins to enter the excavation; and
  - The excavation is enlarged by 20 feet or greater; or
  - Excavation activities commence in a new excavation area within an area suspected to have elevated TCE Vapors.

- If sampling or screening data, with a reporting limit of 5 µg/m^3 or lower, demonstrates that TCE is present at concentrations greater than 7 µg/m^3, the use of respiratory protection and ventilation fans during all excavation entry shall continue, and the Environmental Professional shall notify the DEH within 24 hours.

- If sampling or screening data demonstrates that TCE is present at concentrations less than 50 µg/m^3, the Contractor may terminate sampling or screening for TCE while workers continue to wear respiratory protection (with fan ventilation of the excavation). If sampling or screening data demonstrates that TCE is present at concentrations greater than 50 ug/m^3, the Contractor should implement additional engineering controls within the excavation, re-evaluate respiratory protection and upgrade as necessary, and continue sampling or screening until sampling or screening data demonstrates that TCE is present at concentrations less than 50 ug/m^3. TCE air sampling or screening outside of the excavation shall be performed if TCE concentrations within the excavation cannot be reduced to levels below 50 µg/m^3.

- Excavated soil in contact with ground water shall be assumed contaminated. This soil shall be segregated and stockpiled at a designated, plastic-lined stockpile area and sampled per Department of Toxic Substances Control's (DTSC's) protocols to determine if soil can be reused on-Site or if soil is required to be disposed off-Site at a permitted facility.

- Protocols for management of ground water discharges during excavation dewatering. Protocols shall be prepared to evaluate water quality and discharge/disposal alternatives. The pumped water shall not be used for on-Site dust control or any other on-Site use.

- Protocols for management of Site risks during earthwork activities in areas where impacted soil, soil vapor and/or ground water are present or suspected. Worker training requirements, health and safety measures and soil handling procedures shall be described.

[3] The Project Certified Industrial Hygienist may elect to continue air monitoring for TCE in a known or suspected TCE source area even if concentrations are documented to be less than 7 ug/m^3.

- During earthwork excavation activities (trenching approximately 5 feet or deeper) and/or any trench with ponded ground water, daily ambient air samples shall be collected at the Site perimeter. Ambient air samples shall be collected in 6-liter Summa canisters, each equipped with a 24-hour flow controller. The Summa canisters and flow controllers shall be certified for low level Selected Ion Monitoring (SIM). The air samples shall be analyzed for TCE (Test Method TO-15SIM) on an accelerated one-day response time. The TCE analytical reporting limits for the time-integrated samples for perimeter monitoring shall be 0.48 $\mu g/m^3$ (TCE's residential indoor air Tier 1 screening level). A response action level for TCE (0.48 $\mu g/m^3$ above the ambient TCE concentration [upwind data compared to downwind data]) shall trigger the mitigation actions (to be developed by the Environmental Professional). In addition, if the response action level is exceeded, DEH must be notified within two working days. An ambient air monitoring result shall be considered elevated if analytical data exceeds the US EPA Region 9 recommended guidance level for TCE of 2 $\mu g/m^3$ (residential accelerated response action level) or 6 $\mu g/m^3$ (residential urgent response action level). If these action levels are exceeded, response actions (to be developed by Environmental Professional) are required to determine if mitigation and worker protection measures are necessary.

- If the above actions levels are not exceeded in the first three days of perimeter air monitoring, the monitoring shall be reduced to one event per work week.

- Excavated soils from approximately 5 feet or deeper shall be field-screened for the presence of VOCs. Field screening (approximately every 10 lineal feet of trench or 50 cubic yards [CYs] of excavated soil) shall occur using a sensitive PID (such as the ppbRAE 3000). Soil that is field-screened and "cleared" (less than 500 ppb_v – or a similar level approved by the oversight agency) can be considered "clean" and can be reused for on-Site fill. Potentially contaminated soil shall be segregated and stockpiled at a designated, plastic-lined stockpile area for subsequent testing and laboratory analyses to determine if the soil can be reused on-Site or if it is required to be disposed off-Site at a permitted facility.

- Evaluation and documentation of the quality of any soil imported to the Site shall follow the *Information Advisory Clean Imported Fill Material* (DTSC, October 2001). Soil containing chemicals exceeding the current residential (unrestricted use) screening levels or typical background concentrations of metals shall not be accepted.

- Evaluation of the residual contaminants to determine if they will adversely affect the integrity of below ground utility lines and/or structures (e.g., the potential for corrosion).

- Measures to reduce soil vapor and ground water migration through trench backfill and utility conduits. Such measures shall include placement of low-permeability backfill "plugs" at specified intervals on-Site and at all locations where the utility trenches extend off-Site. In addition, utility conduits that are placed below ground water shall be installed with water-tight fittings to reduce the potential for ground water to migrate into the conduits.

- Any removed utility line that is approximately 3 inches or greater in diameter shall be observed for sediment. If sediment is present, it shall be stockpiled as potentially contaminated material and sampled in accordance with the protocols outlined in the SMP.

- Prior to the start of any construction activity that involves below ground work (e.g., mass grading, foundation construction, excavating or utility trenching), information regarding Site risk management procedures (e.g., a copy of the SMP) shall be provided to the Contractors for their review, and each Contractor shall provide such information to its Subcontractors.

- The Project Applicant's Environmental Professional shall assist in the implementation of the SMP and shall, at a minimum, perform part-time observation services during excavation, grading and trenching activities. Within 60 days of completion of soil disturbance activities, the Environmental Professional shall prepare a report documenting compliance with the SMP; this report shall be submitted to the City and the DEH. Written approval of this report by the DEH should be required by the City prior to approving occupancy permits.

- Each contractor working at the project Site shall prepare a Health and Safety Plan (HSP) that addresses the safety and health hazards of each phase of site operations that includes the requirements and procedures for employee protection. Workers conducting site investigation and earthwork activities in areas of contamination shall complete a 40-hour HAZWOPER training course (29 CFR 1910.120 (e)). The contractor shall be responsible for the health and safety of their employees as well as for compliance with all applicable federal, state, and local laws and guidelines.

- A vapor mitigation system shall be installed for all occupied structures. The *Vapor Intrusion Mitigation Advisory* (DTSC, October 2011) provides useful guidance in selecting, designing, and implementing appropriate response actions for sites where a potential vapor intrusion risk has been identified.

- Pre-construction, the Project Applicant shall submit Vapor Intrusion Mitigation System drawings and specifications to a third-party reviewer selected by the City. Finalized drawings and specifications shall then be provided to DEH for their review and written approval. Upon DEH's approval, these drawings and specifications shall be incorporated into the City building permit design check.

- Post construction (within 60 days), the Project Applicant shall provide a Vapor Mitigation Completion Report to the City and the DEH. The report shall document installation of the vapor control measures identified in the Vapor Intrusion Mitigation Plan, including final as-built design drawings, and present an Operation, Maintenance and Monitoring Plan. The Project Applicant also shall provide Institutional Controls and Financial Assurance[4] to ensure that future Site occupants are not exposed to unacceptable levels of VOC vapors. DEH written approval of the above should be a condition of the occupancy permit.

- PCBs were detected at a concentration of 0.622 mg/kg at a former transformer pad, exceeding its residential screening level (0.24 mg/kg). Under the oversight of DEH, the

[4] Proof that adequate funds are available for long-term maintenance and monitoring of the vapor intrusion mitigation system

lateral and vertical extent of PCB contamination shall be defined and the impacted soil over-excavated and disposed at a permitted facility. Confirmation samples shall be collected and analyzed to document that the impacted soil has been appropriately over-excavated.

- The source of the elevated concentration of PCE in soil vapor (detected at soil vapor probe SG-6) is unknown. DEH shall be contacted regarding this elevated PCE concentration to determine if further investigation/remediation will be required for this area.

- If a deep foundation system is proposed, the foundation of the building shall incorporate measures to help reduce the potential for the downward migration of contaminated ground water. These measures shall be identified in the Geotechnical Investigation report and the SMP and implemented as a part of the development plans.

Limitations

Cornerstone performed this Peer Review to support ESA and the City in the preparation of a CEQA Study at The Residences @ Shoreline Gateway, Mountain View, California. Conclusions and recommendations presented in this letter are based on selected, readily available information. This study is inherently limited because findings are developed based on information obtained from others. Cornerstone does not accept liability for deficiencies, errors, or misstatements that have resulted from inaccuracies in the publicly available information or from information published by others. Cornerstone reviewed and relied on the information presented in these reports and cannot be responsible for their accuracy. Cornerstone makes no warranty, expressed or implied, except that our services have been performed in accordance with the environmental principles generally accepted at this time and location.

We thank you for this opportunity to work with you on this important development. Should you have any questions, please contact us at your convenience.

Sincerely,

Cornerstone Earth Group, Inc.
Ron L. Helm, C.E.G.
Senior Principal Geologist

CORNERSTONE EARTH GROUP

Date:	June 24, 2019
Project No.:	1014-1-1
Prepared For:	Ms. Elizabeth Kanner, Senior Managing Associate Ms. Jill Feyk-Miney, Senior Associate **ENVIRONMENTAL SCIENCE ASSOCIATES** 550 Kearney Street, Suite 800 San Francisco, California 94108
Re:	**Second Peer Review** *Phase I Environmental Site Assessment and Phase II Subsurface Investigation* 1001 North Shoreline Boulevard Mountain View, California

Dear Ms. Kanner and Ms. Feyk-Miney:

Per your request, Cornerstone Earth Group, Inc. (Cornerstone) is pleased to present this Second Peer Review of the *Phase I Environmental Site Assessment* (Phase I ESA) *and Phase II Subsurface Investigation* (Phase II Investigation), *1001 North Shoreline Boulevard, Mountain View, California* prepared by eki environment & water (EKI), revised date of June 14, 2019. This EKI report was a revision of their first draft report (EKI, April 25, 2019), which was edited based on comments presented by Cornerstone in the First Peer Review (May 8, 2019).

Draft

General Comments

Cornerstone provided the following comment in our first Peer Review (May 2019) for the EKI Phase I ESA and Phase II Investigation (April 2019):

a. Per the Geotechnical Investigation (Cornerstone 2014), approximately 1 to 2 feet of undocumented fill consisting of fat clay mixed with varying percentages of gravel and sand was observed beneath the surface asphaltic concrete pavement. Section 3.2 of the Phase I ESA and Phase II Investigation report (EKI 2019) also describes 1 to 2 feet of sand beneath the asphalt surface. These materials likely do not represent native soils; these materials likely represent fill imported to the Site for the original Site commercial development.

   Per Section 9.2.1 of the Phase I ESA and Phase II Investigation report (April 2019), "EKI collected soil samples from intervals of 0.5 to 1.0 foot bgs [below ground surface]" [1]. In our opinion, this sampling depth may not represent soil historically used for agricultural activities and may not represent soil potentially

[1] Cornerstone does accept the approximate ½ to 1-foot sampling depth, but the sampling depth should be measured from the surface of native soil and not pavement.

impacted by lead-based paint or termite control pesticides. We recommend that EKI analyze the surface of native soils or provide rationale that the fill material was historically used for agricultural activity and likely representative of soil that may be impacted by lead-based paint or termite control pesticides.

To address the above, EKI analyzed the deeper soil samples (2½ to 3 foot depth) and modified / reissued their report. Cornerstone provides the following comments regarding the reissued EKI report (June 2019):

In March 2019, EKI advanced 14 borings to collect soil samples at approximate depths of ½ to 1 and 2½ to 3 feet. EKI stated that "Generally, shallower samples were located within sandy material likely brought to the Subject Property as fill during development, and deeper samples were located within silty or clayey native material, several of which were within the upper foot of historical native soil; however, the sandy material was not present at all locations, and some of the shallow samples were collected from probable native material". The soil samples reported as characteristic of native material and within its upper foot consist of the following:

Draft

SG-04-0.5-1.0
SG-07-2.5-3.0
SG-08-0.5-1.0
BH-01-0.5-1.0
BH-03-0.5-1.0
BH-05-0.5-1.0

Note that 5 of 14 soil samples collected at the ½ to 1 foot depth interval and 1 of 8 soil samples collected at the 2½ to 3 foot depth interval were reported by EKI as collected in the upper foot of native soil. It's Cornerstone's opinion that if these six samples are representative of the upper foot of native soil as reported by EKI, no further sampling appears required at this time.

Considering the difficulty in classifying fill versus native soils, Cornerstone also notes that the Site will be capped by the proposed development (and the existing layer of fill generally covering the Site), limiting exposure of the future residents to native soils.

Cornerstone provided the following comment in our first Peer Review (May 2019) for the EKI Phase I ESA and Phase II Investigation (April 2019):

b. Polychlorinated biphenyl (PCBs) were detected at a concentration of 0.622 mg/kg at a former transformer pad. EKI compared this detection to the High Occupancy Use Cleanup Level of 1 milligram per kilogram (mg/kg) established in the Toxic Substances Control Act (TSCA). Based on our experience working with US EPA on PCB soil remediation projects, it's our opinion that the US EPA

Residential Regional Screening Level (0.24 mg/kg)[2] is the more appropriate screening level.

Cornerstone provides the same comment regarding the reissued EKI report (June 2019). We recommend contacting Santa Clara County Department of Environmental Health (DEH – the lead oversight agency) to determine whether additional investigation/soil removal in this area will be required.

Cornerstone provided the following comment in our First Peer Review (May 2019) for the EKI Phase I ESA and Phase II Investigation (April 2019):

c. Investigative-derived wastes were profiled for removal. The Project Applicant shall provide documentation that these waste materials have been appropriately disposed off-Site.

The investigative waste was reported as removed in the EKI June 2019 revised report.

Cornerstone provided the following comment in our First Peer Review (May 2019) for the EKI Phase I ESA and Phase II Investigation (April 2019):

d. The Phase I ESA and Phase II Investigation report provides limited recommendations. Cornerstone provides more detailed recommendations below.

Cornerstone's more detailed recommendations have not changed. Please review our First Peer Review (May 2019) for these recommendations.

Draft

Close

We thank you for this opportunity to work with you on this important development. Should you have any questions, please contact us at your convenience.

Sincerely,

Cornerstone Earth Group, Inc.
Ron L. Helm, C.E.G.
Senior Principal Geologist

[2] November 2018.

Appendix J
Environmental Noise Study

Charles M. Salter
ASSOCIATES INC.

Acoustics
Audiovisual
Telecommunications
Security

130 Sutter Street
Floor 5
San Francisco, CA
94104
T 415.397.0442
F 415.397.0454
www.cmsalter.com

29 April 2019

Kerry Williams
Sares Regis
901 Mariners Island Boulevard, Suite 700
San Mateo, CA 94404
Email: k-keenan@pacbell.net

Subject: **The Residences at Shoreline Gateway**
Environmental Noise Study
Salter Project: 19-0142

Dear Kerry:

As requested, we have conducted an environmental noise study for the proposed project. The project consists of two residential buildings on the same parcel with an existing office building and parking garage. Each building consists of five floors of wood-frame structure over a two-story concrete podium, totaling approximately 290,000 square feet. Block A includes 203 market-rate rental units, and Block B includes 100 upscale for-sale condominiums. The purpose of the study is to determine the noise environment at the proposed site, compare the measured data with applicable standards, and propose mitigation measures as necessary. This report summarizes the results of our study.

PROJECT CRITERION

Mountain View General Plan

The Mountain View General Plan contains land use compatibility guidelines for environmental noise in the community. Noise levels are characterized in terms of Day/Night Average Sound Levels[1] (DNL). The guidelines for multi-family residential projects are summarized in Table 1 below.

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[1] DNL (Day-Night Average Sound Level) – A descriptor for a 24-hour A-weighted average noise level. DNL accounts for the increased acoustical sensitivity of people to noise during the nighttime hours. DNL penalizes sound levels by 10 dB during the hours from 10 PM to 7 AM. For practical purposes, the DNL and CNEL are usually interchangeable. DNL is sometimes written as L_{dn}.

Table 1: Land Use Compatibility for Community Noise Environments

Exterior Noise Exposure (DNL)	Land Use Compatibility Level for Office Buildings
60 dB[2] or less	*Normally Acceptable* – Specified land use is satisfactory, based upon the assumption that any buildings involved are of normal conventional construction, without any special noise insulation requirements.
60 to 70 dB	*Conditionally Acceptable* – New construction or development should be undertaken only after a detailed analysis of the noise reduction requirement is made and needed noise insulation features included in the design.
70 to 75 dB	*Normally Unacceptable* – New construction or development should be discouraged. If new construction or development does proceed, a detailed analysis of the noise reduction requirements must be made and needed noise insulation features included in the design.
75 dB or greater	*Clearly Unacceptable* – New construction or development clearly should not be undertaken.

In addition, Policy NOI 1.2 of the Mountain View General Plan states the following:

- New multi-family developments shall maintain a standard of DNL 65 dB for exterior noise in private and community outdoor active use areas. Noise standards do not apply to private decks or balconies.
- Interior noise levels shall not exceed DNL 45 dB in all new multi-family residential units, as consistent with the California Building Code.
- Where new multi-family residential units would be exposed to intermittent noise from major transportation sources such as train or airport operations, occurring four or more times per day, new construction shall achieve an interior noise level of 65 dB through measures such as site design or special construction materials.[3]

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[2] A-Weighted Sound Level (dB) — The sound level is obtained by use of a standard sound level meter and is expressed in decibels.

[3] The site is within the Airport Influence Area, but outside the CNEL 60 dB noise contour of Moffett Federal Airfield (Mountain View 2030 General Plan, Figure 7.2: Aircraft Noise Contours, 2022, and Airport Influence Area). It is over 4,000 feet from an active railroad right-of-way used daily by Caltrain and freight trains.

California Building Code (CBC)

The California Building Code limits indoor noise from outdoor sources to DNL 45 dB in habitable rooms of attached housing.[4]

California Green Building Code (CALGreen)

Section 5.507.4 of the 2016 California Green Building Standards Code (CALGreen) addresses acoustical issues for nonresidential spaces. There is a requirement for mitigating exterior noise where buildings are exposed to a noise level of 65 dB $L_{eq}(h)$[5] or greater. If this is the case, then the building envelope must have wall and roof-ceiling assemblies designed to provide an interior noise environment not exceeding an $L_{eq}(h)$ of 50 dBA in occupied areas during hours of operation.

We assumed that the hours of operation for the building will be from 7 a.m. to 8 p.m. and used the loudest $L_{eq}(h)$ during that period as the basis for design.

NOISE ENVIRONMENT

The project is located approximately 300 feet southwest of US-101, bounded by North Shoreline Boulevard, Terra Bella Avenue, Linda Vista Avenue, and the US-101 southbound on-ramp. The site is located approximately 7,000 feet from the Moffett Federal Airfield and is located outside of the 60 CNEL[6] Moffett Federal Airfield 2022 noise contour[7]. The noise environment at the site is predominantly controlled by vehicular traffic along North Shoreline Boulevard and US-101.

To quantify the existing noise environment, we conducted four long-term noise measurements between 21 and 27 February 2019. The meters measured continuous noise levels and recorded "loud" noise events, allowing us to identify the source of the noise (e.g., truck noise, motorcycles, and plane flyovers). The noise monitors were at a height of 12 feet above grade. Short-term "spot" and pole measurements were also conducted to determine the change in noise levels at higher elevations. The measured levels and description of the monitor locations are shown in Figure 1. Table 1 shows a summary of the measured data.

---

4 California Code of Regulations, Title 24, Part 2: 2016 California Building Code, Chapter 12, Section 1207: Sound Transmission.

5 L_{eq} – The equivalent steady-state A-weighted sound level that, in a stated period of time, would contain the same acoustic energy as the time-varying sound level during the same period.

6 CNEL (Community Noise Equivalent Level) – A descriptor for a 24-hour A-weighted average noise level. CNEL accounts for the increased acoustical sensitivity of people to noise during the evening and nighttime hours. CNEL penalizes sound levels by 5 dB during the hours from 7 PM to 10 PM and by 10 dB during the hours from 10 PM to 7 AM. For practical purposes, the CNEL and DNL are usually interchangeable.

7 Figure 7.2: Aircraft Noise Contours, 2022, and Airport Influence Area <https://www.mountainview.gov/civicax/filebank/blobdload.aspx?blobid=10698>

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Table 1: Measured Environmental Noise Levels

Site	Location		Leq(h)	DNL
L1	US-101 On-ramp Monitor, 12' height Approximately 320' southwest of US-101 centerline and 325' east of N Shoreline center		70 dB	73 dB
L2	Linda Vista Monitor[8], 12' height Approximately 25' west of roadway centerline		65 dB	68 dB
L3	Terra Bella Monitor, 12' height Approximately 25' south of roadway centerline		66 dB	68 dB
L4	N Shoreline Monitor, 12' height Approximately 55' west of roadway center		76 dB	76 dB
S1A	Approximate location of Block A building northeast corner Approximately 340' southwest of US-101 centerline and 325' east of N Shoreline center	5' height	65 dB*	68 dB*
S1B		35' height	73 dB*	76 dB*
S2A	Approximate location of Block B building northeast corner Approximately 155' west of Linda Vista centerline	5' height	61 dB*	64 dB*
S2B		35' height	68 dB*	71 dB*

*Calculated from simultaneous offset from long-term monitor

In addition, the typical maximum instantaneous noise level ($L_{max}30$[9]) from airplane passbys was 77 dB at monitor L3. Train noise was immeasurable at the site, as the nearest train tracks were over 4,000 feet away.

[8] Measurements taken at Linda Vista included numerous instances of truck noise, such as stalled motor noise and horn noise due to reversing, without certainly identifiable sources, so our calculations treat this noise as a temporary source. This may be modified in the future once truck originations are identified.

[9] L_{max30} (Typical Maximum Sound Level) – There is no standardized metric to quantify "typical" maximum sound levels in an environment (instead of the absolute maximum sound level for a measurement period). The metric L_{max30} comes from a paper by Rob Greene ("Max Level Intrusive Noise Limit: 1982 National Conference on Environmental and Occupational Noise"). It is based on the logarithmic average of the noisiest 30 percent of single events (e.g., train passbys, aircraft flyovers).

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ANALYSIS AND RECOMMENDATIONS

Land Use Compatibility

Estimated future noise levels at the planned setback of the residential buildings range from under DNL 60 dB in the courtyards, due to shielding provided by the project and surrounding buildings in addition to increased setback distance from noise generators (e.g., roadways), to approximately DNL 78 dB closest to US-101. Therefore, the project will need to incorporate noise reduction measures into the design to meet the City's indoor noise goals, as discussed in the next section.

Exterior-to-Interior Noise

Based on the noise levels that were measured at the site, we calculated the expected noise levels at the project facades. Using peak-hour traffic volumes from the 10 December 2018 Draft Transportation Impact Analysis[10]: traffic volumes along North Shoreline Boulevard will increase by 16%, which corresponds with approximately 1 dB increase in noise level, and traffic volumes along Terra Bella Avenue will increase by 80%, which corresponds with approximately 3 dB increase in noise from traffic on Terra Bella. These values have been incorporated into our calculations.

The project can meet the meet the State code requirement of reducing interior noise from transportation sources to DNL 45 dB in living spaces, and to the CALGreen criterion of $L_{eq}(h)$ 50 dB in commercial spaces by means of sound rated windows and doors, and upgraded exterior wall assemblies in locations most exposed to noise from Highway 101. Exterior skin assemblies selected to meet these requirements will also reduce interior noise from individual aircraft to meet the maximum noise level requirement of L_{max30} 65 dB. The information included in this report, reflects the current design and assumptions being made. These should be reviewed and refined as needed during the design of the project to confirm the mitigation required. It is possible that higher or lower STC ratings and associated mitigation may be warranted based on the final design.

Using the floor plans and elevations dated 8 January 2019, we calculated the window and exterior door STC[11] ratings needed to meet the project criterion. These are shown in Figures 2-9, attached. It should be noted that where STC ratings are above 35, the balcony door STC is limited to 35.

We have assumed the following:

- Bedrooms will have carpet, all other rooms will have hard-surfaced flooring
- Windows will be punched and sized according to the elevations
- Floor-to-ceiling height is 9 feet, unless specified otherwise on the plans (i.e., amenity spaces, loft level, first and second story residential)

[10] Figure 6: Existing Traffic Volumes, Figure 14: Cumulative Plus Project Traffic Volumes. 10 December 2018 1001 North Shoreline Boulevard Residential Development DRAFT TIA

[11] STC (Sound Transmission Class) – A single-number rating defined in ASTM E90 that quantifies the airborne sound insulating performance of a partition under laboratory conditions. Increasing STC ratings correspond to improved airborne sound insulation.

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- Exterior walls will be equivalent to 7/8-inch thick stucco over wood sheeting with batt insulation in stud cavities and 1 layer of gypsum board on the interior (approximately STC 45)

Our analysis assumes a standard exterior wall (e.g., STC 45). However, there are some locations where an "upgraded" exterior wall is needed (e.g., STC 50) to meet the interior noise requirements. This could consist of a staggered-stud assembly or could include sound-isolation clips (e.g., Kinetics IsoMax) as shown in Figures 10 and 11. All outlet boxes and other low-voltage devices in these walls will also need to be acoustically treated as shown in Figure 12.

The recommended STC ratings are for full window assemblies (glass and frame) rather than for glazing alone. For reference, standard construction grade dual-pane windows and sliding glass doors typically have sound insulation ratings of STC 26 to 28. Where sound insulation ratings are not indicated in Figures 2 through 9, these standard ratings are assumed. Typically, STC ratings above 34 to 36 require laminated glass with STC ratings above 38 requiring IGU assemblies thicker than one inch. This will vary depending on the window manufacturer. Tested sound-rated assemblies should be used.

Since windows will need to be closed to meet the interior noise criteria, the mechanical design should meet ventilation requirements with windows in the closed position, and the ventilation system will need to be designed such that it does not compromise sound insulation of the building shell. Outside air connections back to an individual forced-air unit for the residence could also be incorporated in most cases. The specific approach would need to be refined during the design phase.

Outdoor Use Spaces

Community outdoor use space is expected to be located at the Level 3 courtyard (podium level) of both Block A and B. At both building courtyards, estimated future traffic noise is expected to be below DNL 65 dB. Therefore, no mitigation is necessary.

* * *

This concludes our environmental noise study for The Residences at Shoreline Gateway project. Should you have any questions, please give us a call.

Sincerely,

CHARLES M. SALTER ASSOCIATES, INC.

Winter R. Saeedi
Consultant

Alexander K. Salter, PE
Vice President

Enclosures as noted

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THE RESIDENCES AT SHORELINE GATEWAY MEASUREMENT LOCATIONS AND MEASURED NOISE LEVELS

FIGURE 1

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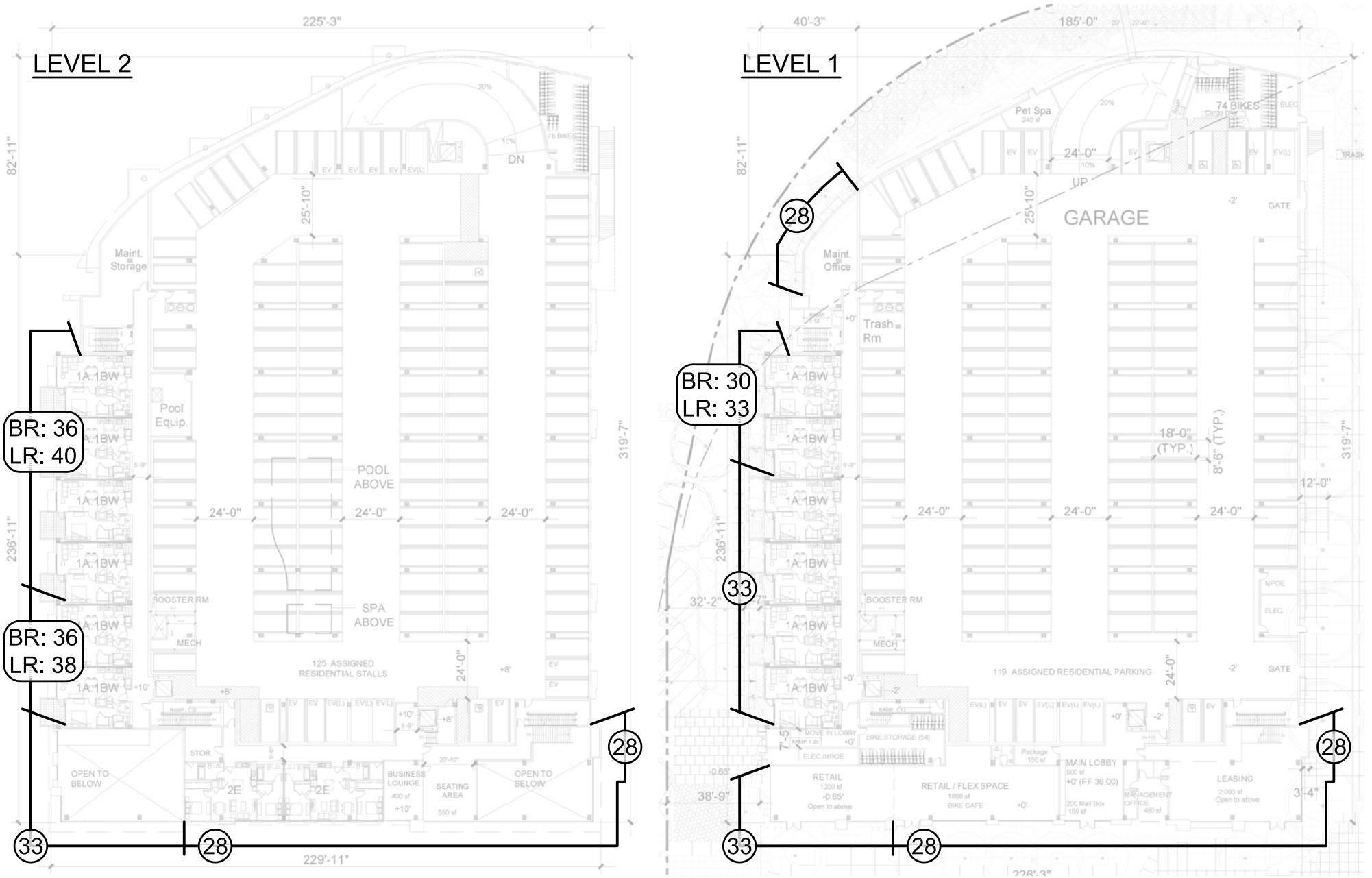

NOTES:
1. WHERE WINDOW STC RATINGS ARE 35 OR GREATER , DOORS TO BE STC 35; WHERE WINDOW STC RATINGS ARE BELOW 35, DOORS TO HAVE SAME STC RATING AS WINDOWS
2. STC RATINGS ARE FOR THE COMPLETE ASSEMBLY (E.G., GLASS, FRAME, AND OPERABLE SECTIONS) BASED ON TEST REPORTS FROM AN NVLAP-ACCREDITED LAB
3. BR = BEDROOMS
   LR = LIVING ROOMS

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THE RESIDENCES AT SHORELINE GATEWAY–BLOCK A MINIMUM CODE–REQUIRED STC RATINGS FOR WINDOWS AND EXTERIOR DOORS (LEVELS 1 AND 2)

FIGURE 2

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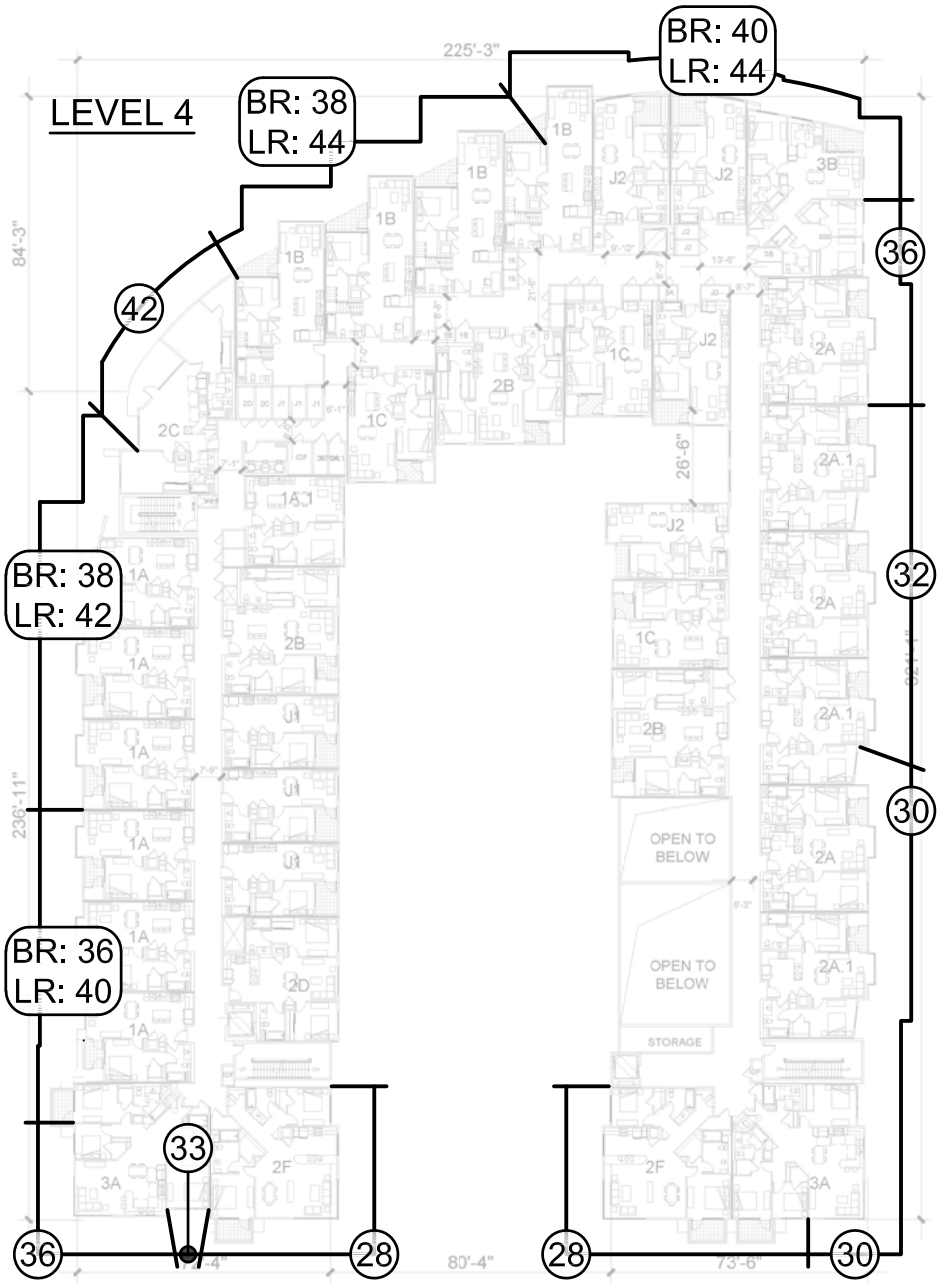

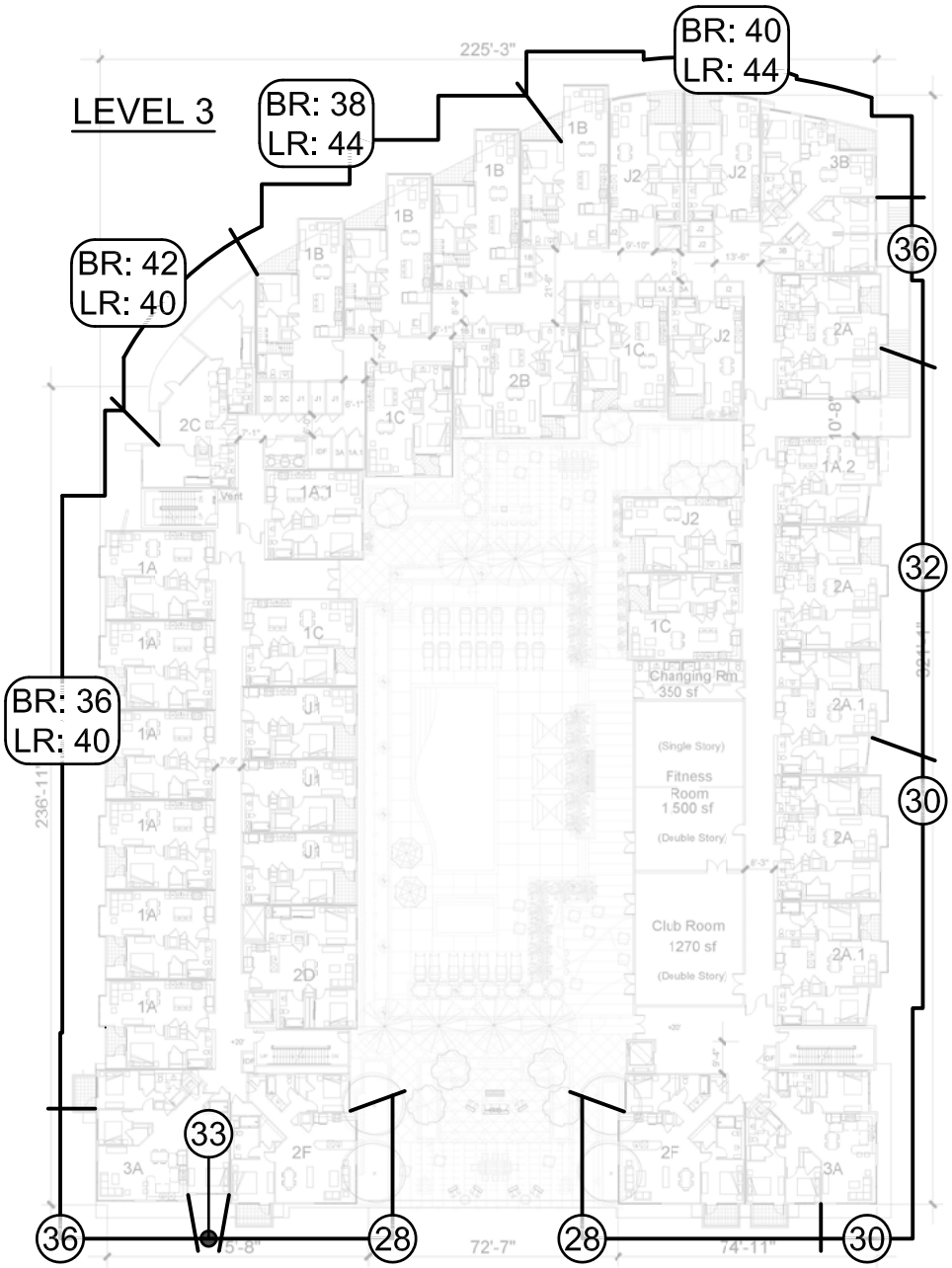

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LR = LIVING ROOMS

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THE RESIDENCES AT SHORELINE GATEWAY–BLOCK A MINIMUM CODE–REQUIRED STC RATINGS FOR WINDOWS AND EXTERIOR DOORS (LEVELS 3 AND 4)

FIGURE 3

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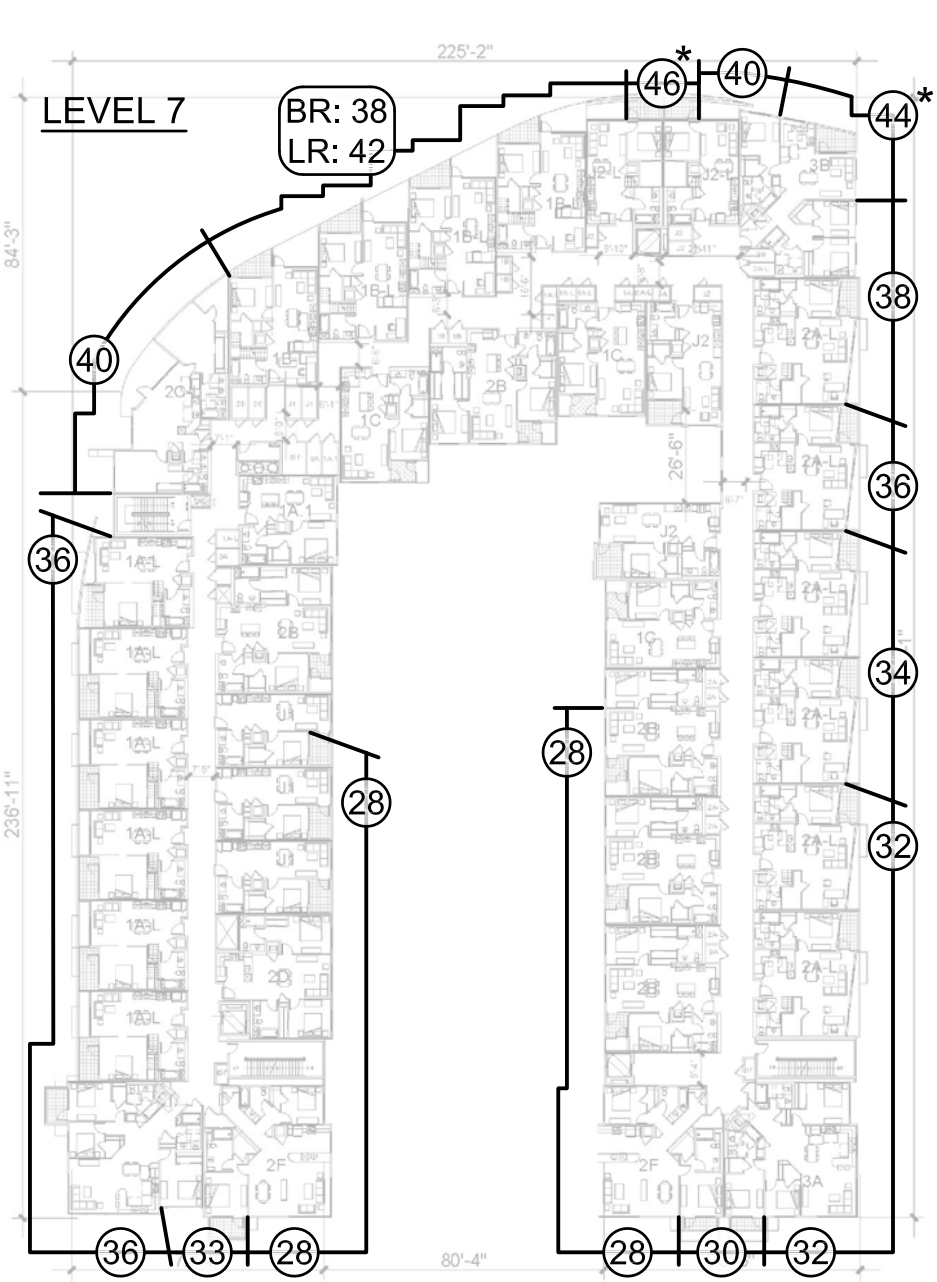

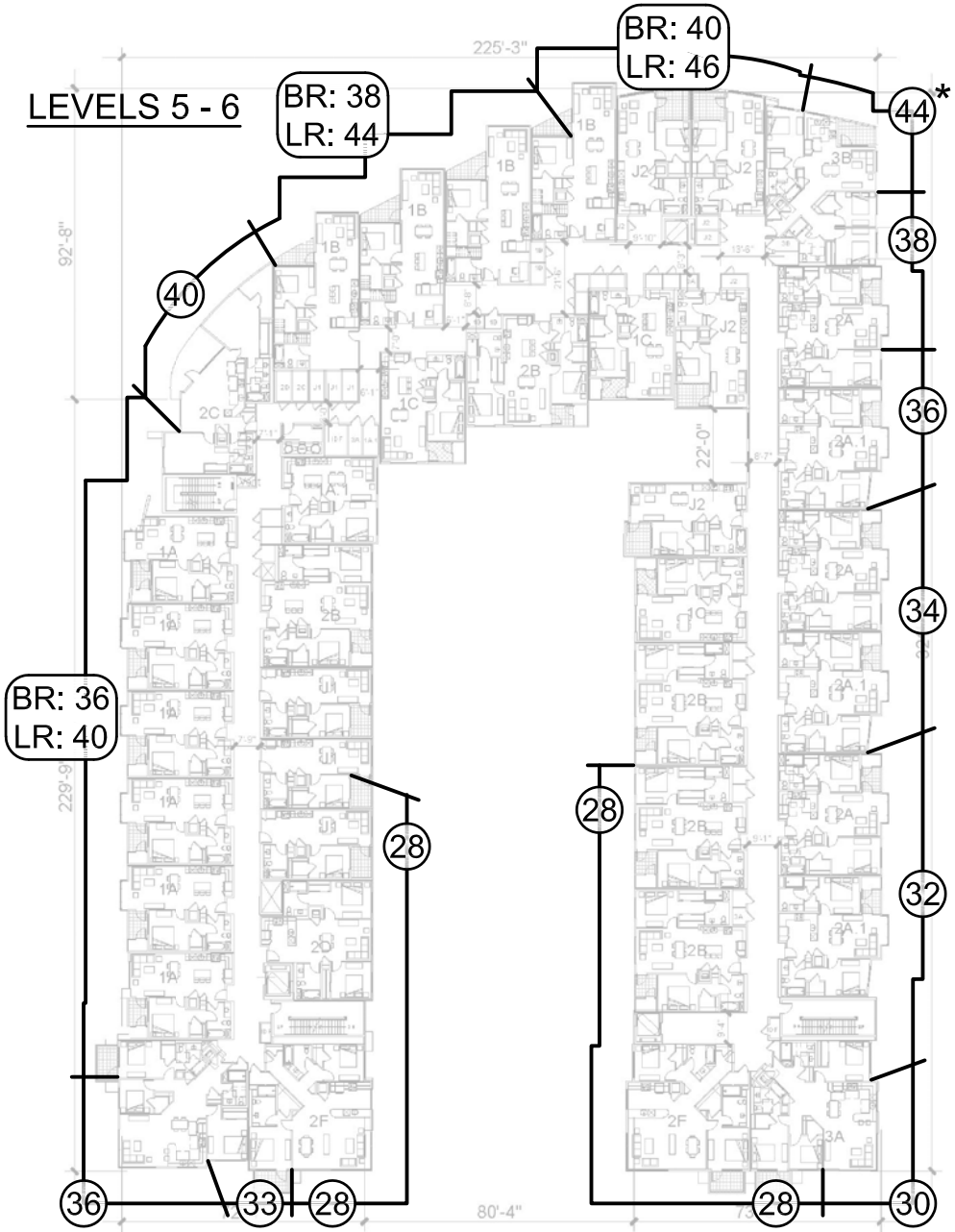

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3. BR = BEDROOMS
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4. STC RATINGS WITH AN ASTERISK (*) REQUIRE AN UPGRADED EXTERIOR WALL

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THE RESIDENCES AT SHORELINE GATEWAY–BLOCK A MINIMUM CODE–REQUIRED STC RATINGS FOR WINDOWS AND EXTERIOR DOORS (LEVELS 5 TO 7)

FIGURE 4

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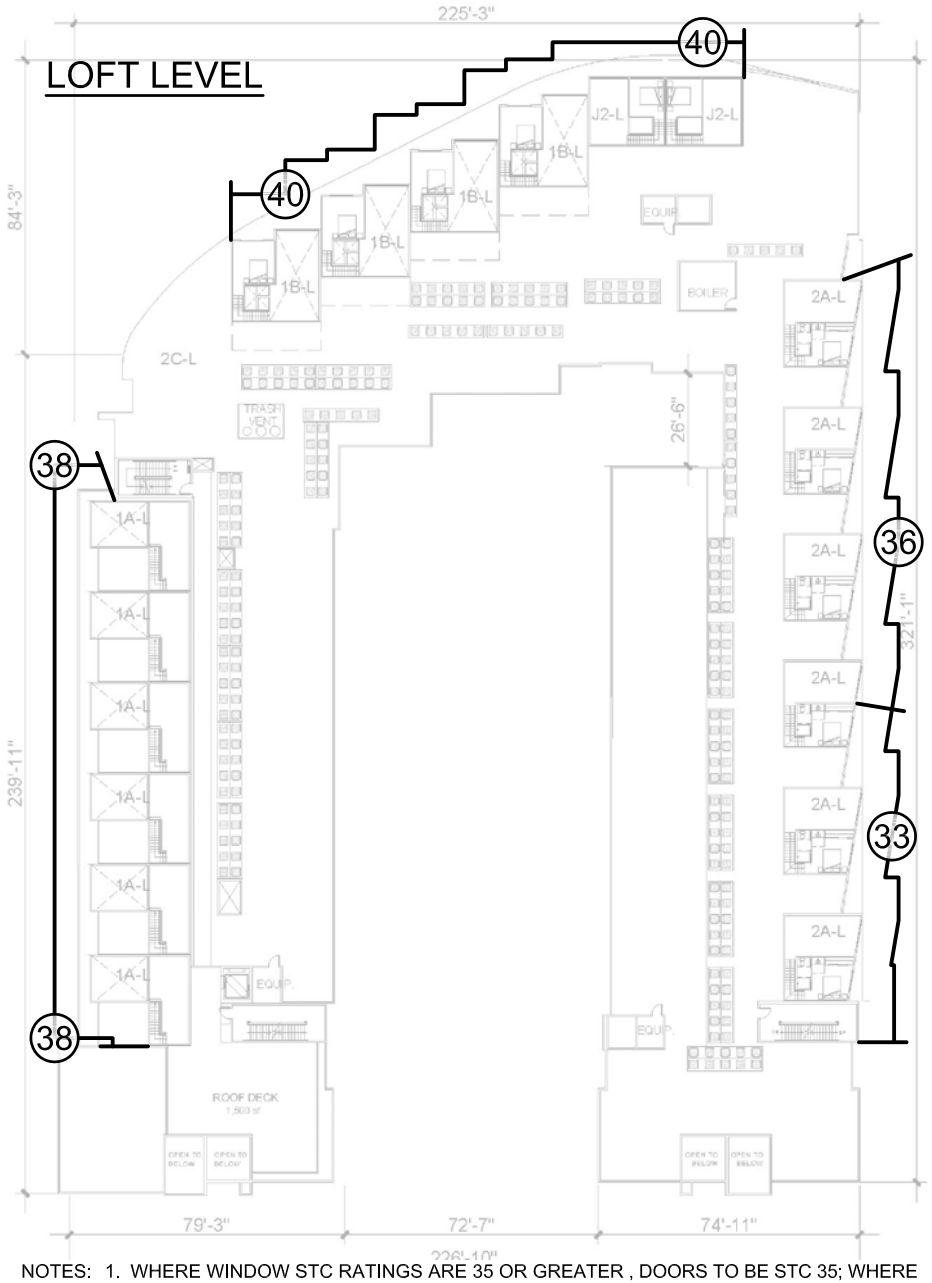

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THE RESIDENCES AT SHORELINE GATEWAY–BLOCK A MINIMUM CODE–REQUIRED STC RATINGS FOR WINDOWS AND EXTERIOR DOORS (LOFT LEVEL)

FIGURE 5

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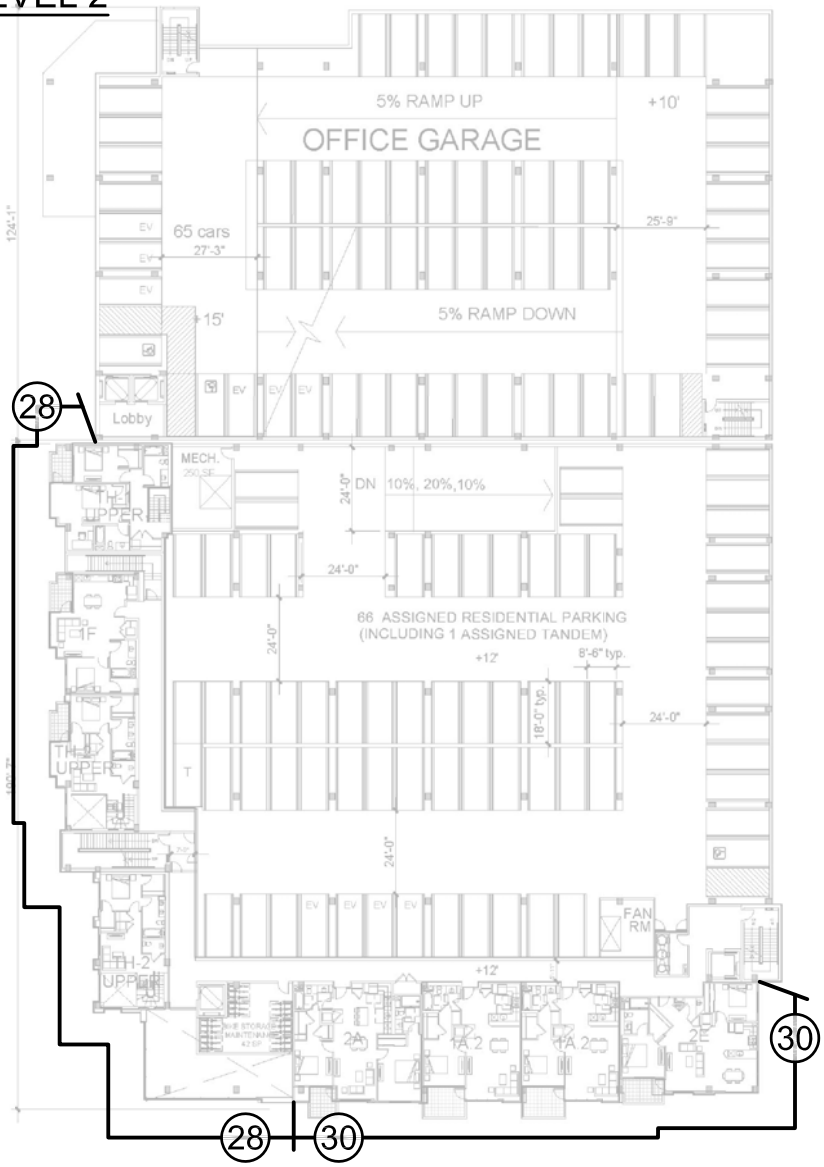
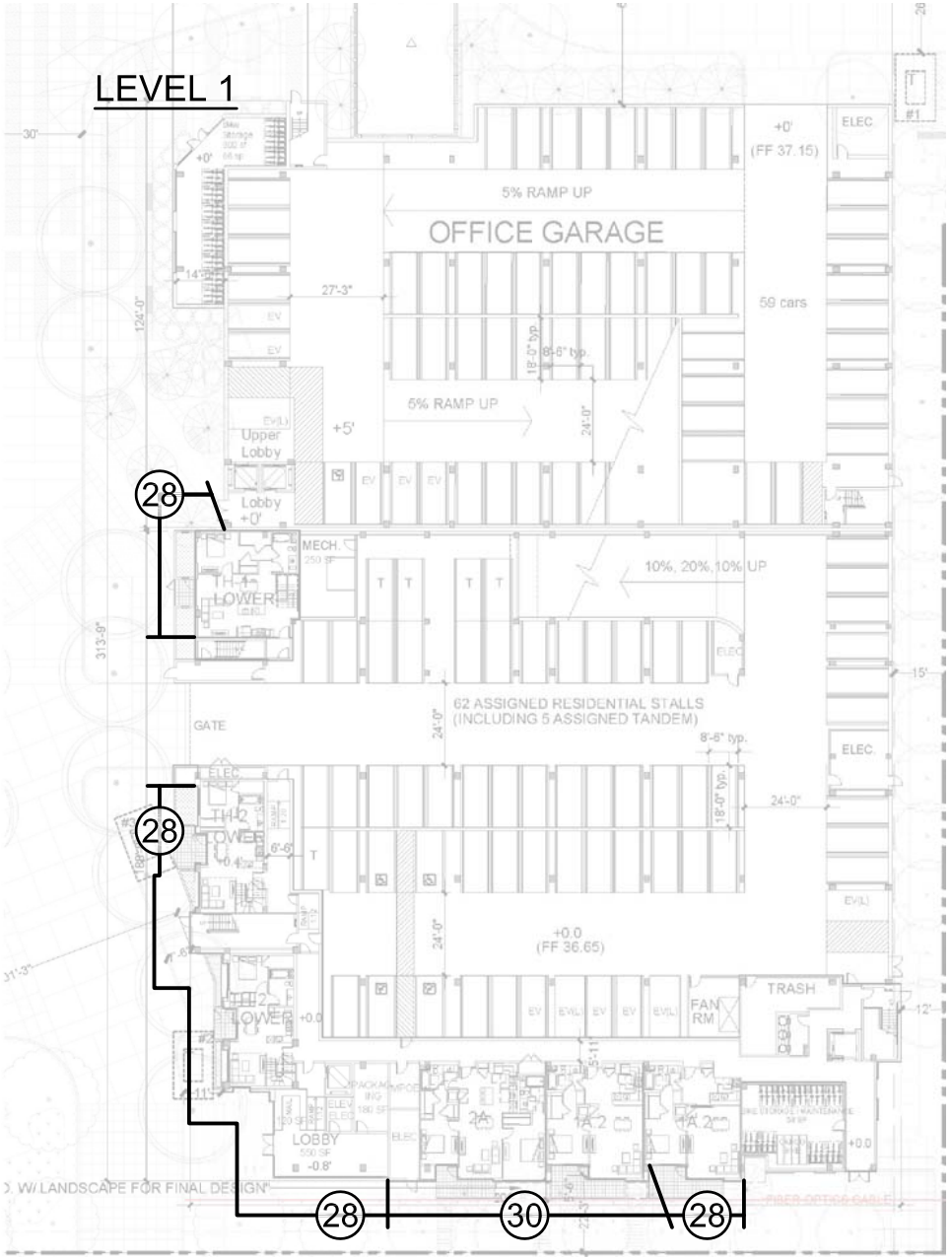
LEVEL 2



LEVEL 1



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THE RESIDENCES AT SHORELINE GATEWAY–BLOCK B MINIMUM CODE–REQUIRED STC RATINGS FOR WINDOWS AND EXTERIOR DOORS (LEVELS 1 AND 2)

FIGURE 6

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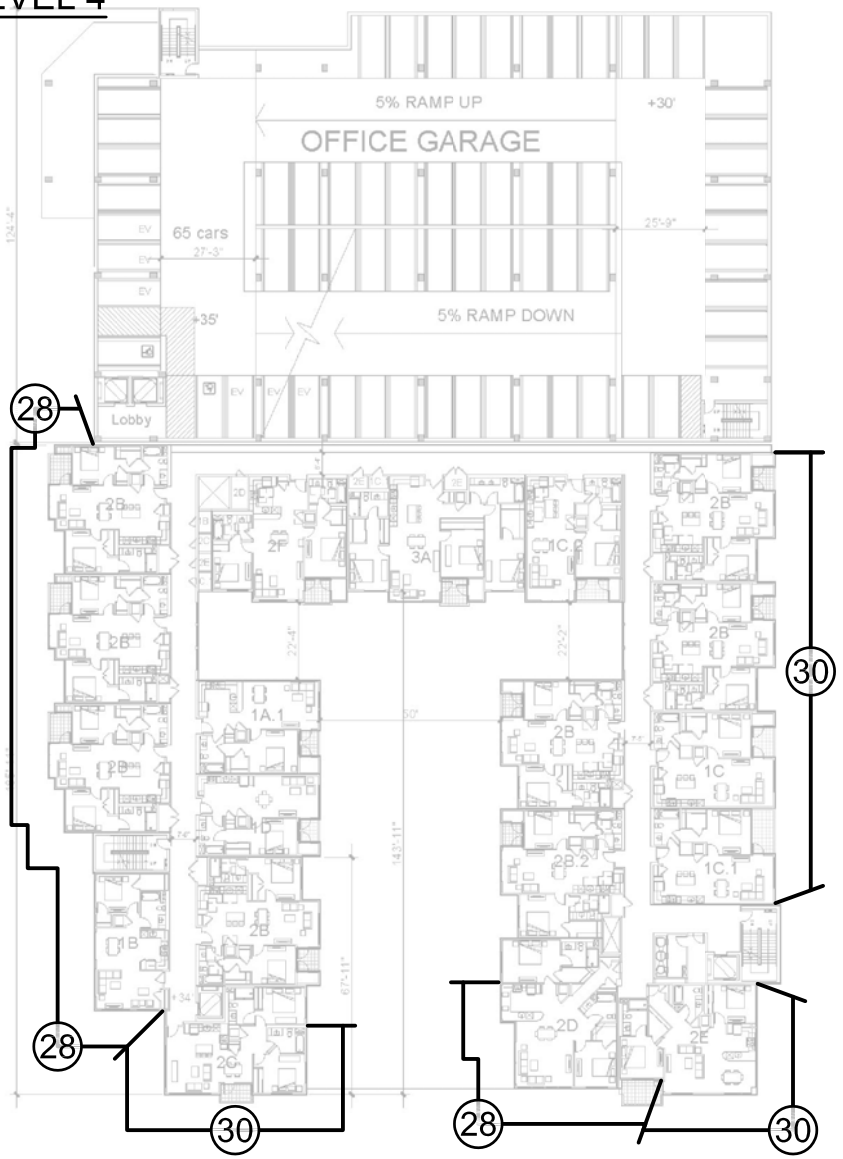
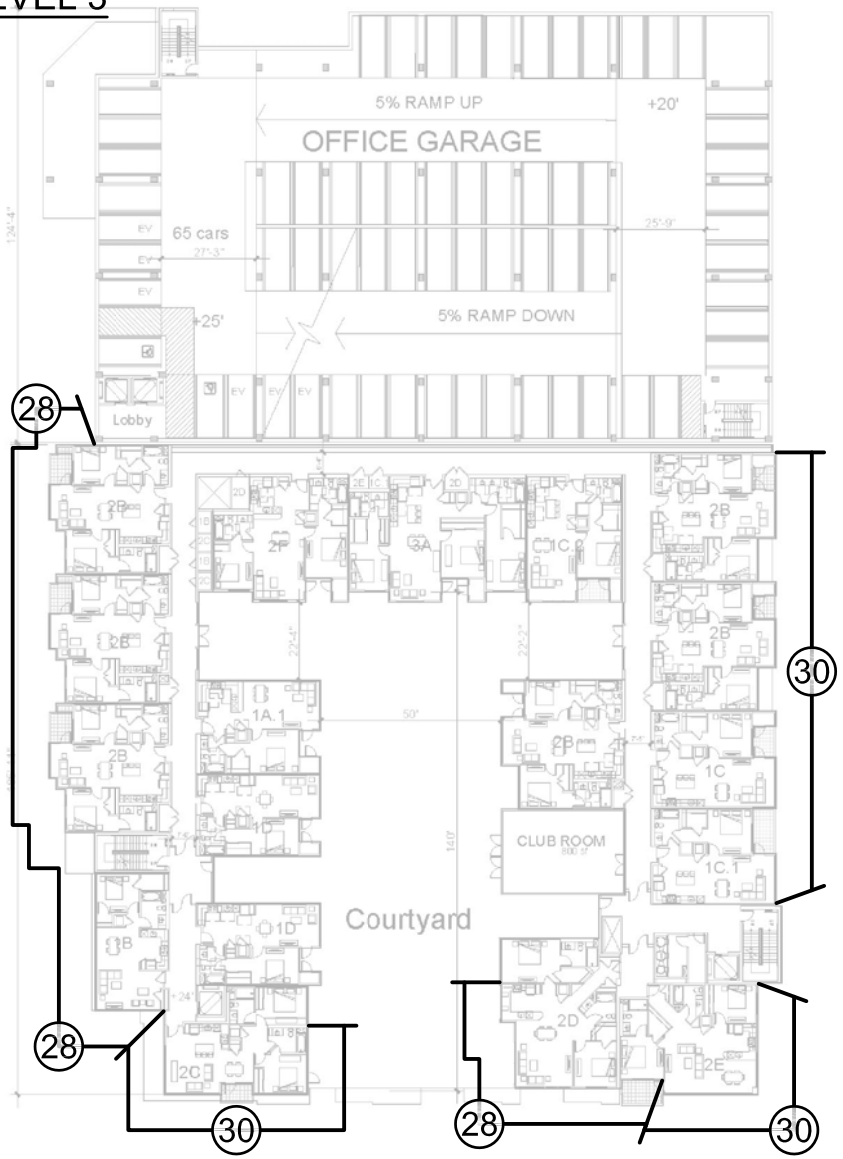
LEVEL 4



LEVEL 3



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THE RESIDENCES AT SHORELINE GATEWAY–BLOCK B MINIMUM CODE–REQUIRED STC RATINGS FOR WINDOWS AND EXTERIOR DOORS (LEVELS 3 AND 4)

FIGURE 7

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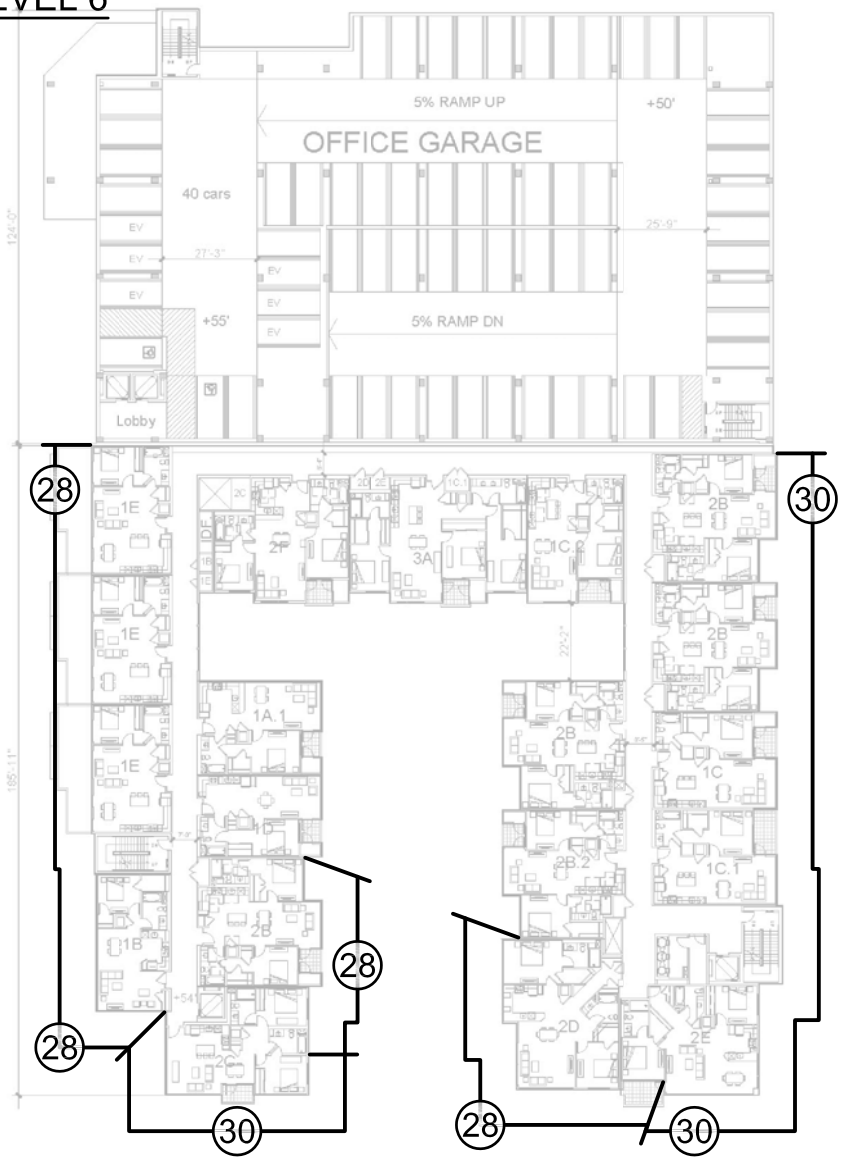
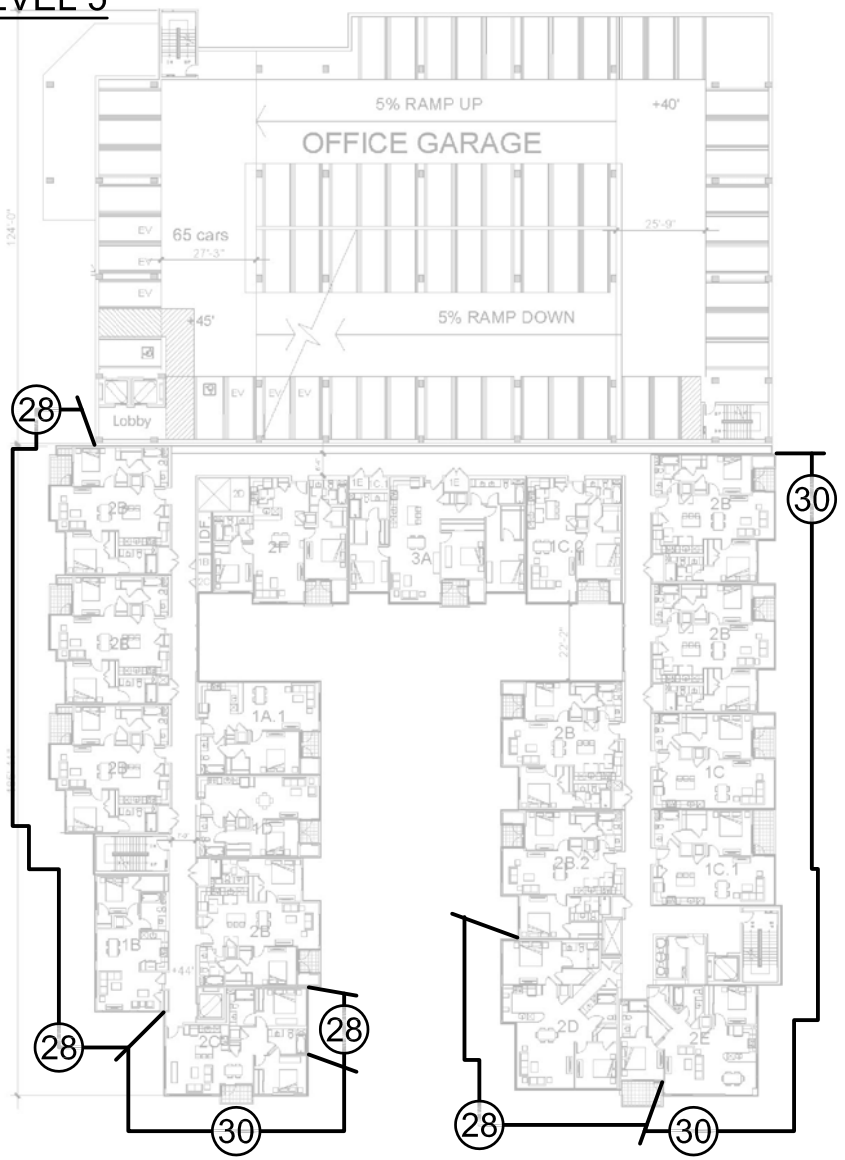
LEVEL 6



LEVEL 5



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THE RESIDENCES AT SHORELINE GATEWAY–BLOCK B MINIMUM CODE–REQUIRED STC RATINGS FOR WINDOWS AND EXTERIOR DOORS (LEVELS 5 AND 6)

FIGURE 8

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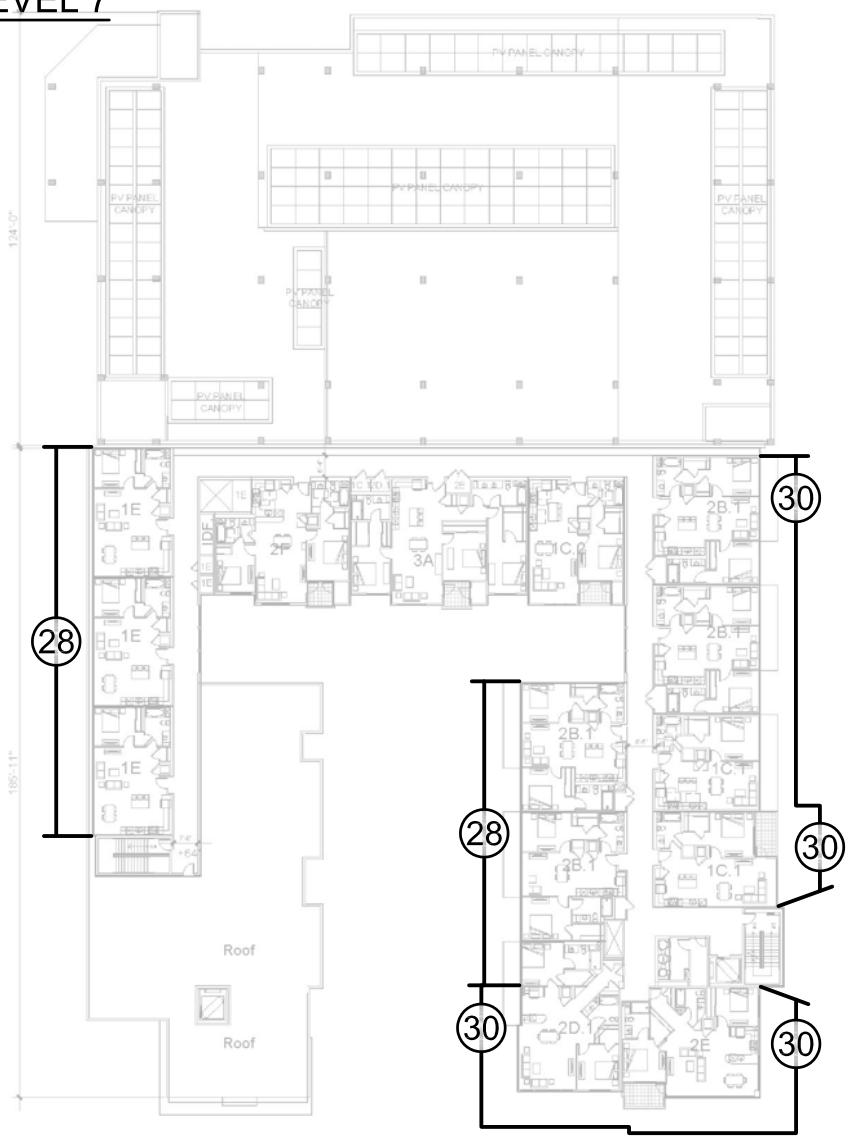
LEVEL 7



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THE RESIDENCES AT SHORELINE GATEWAY–BLOCK B MINIMUM CODE–REQUIRED STC RATINGS FOR WINDOWS AND EXTERIOR DOORS (LEVEL 7)

FIGURE 9

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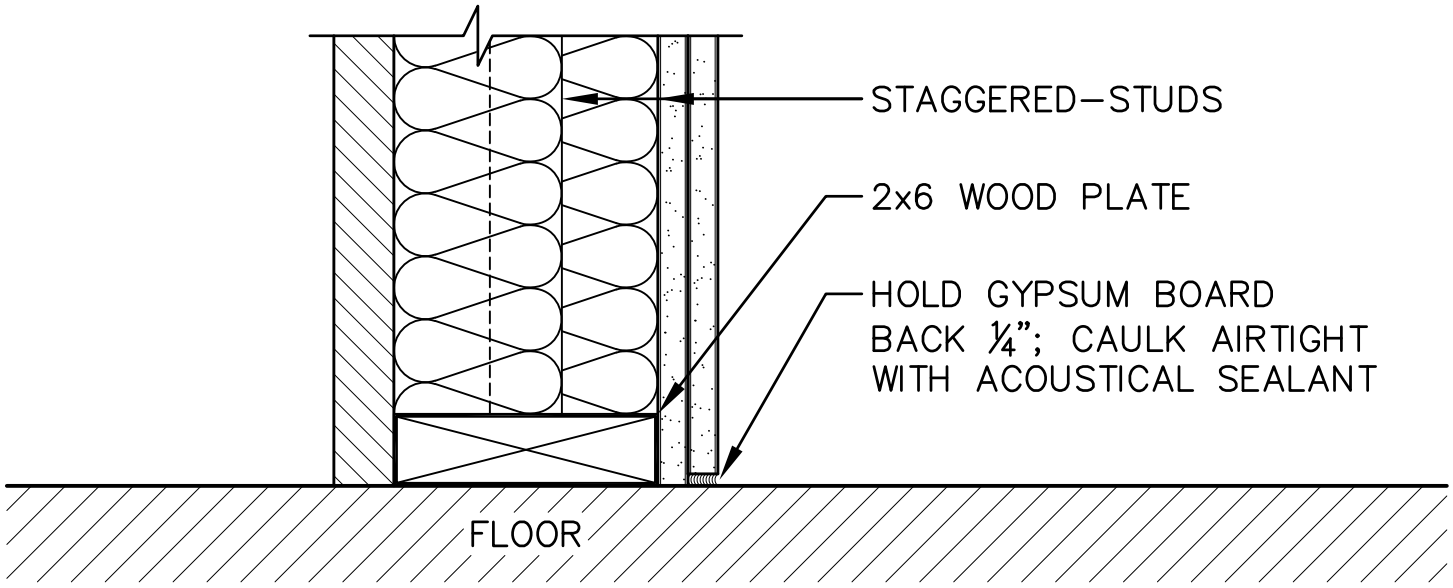
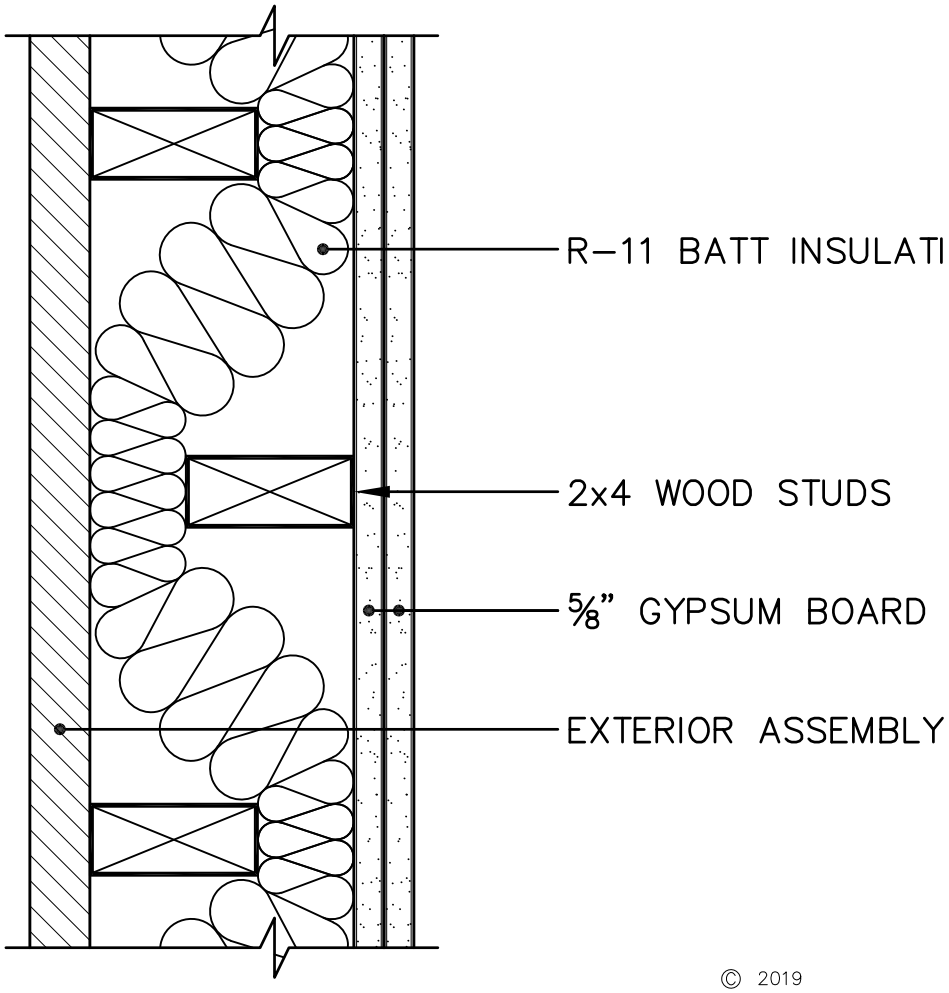


SECTION



PLAN

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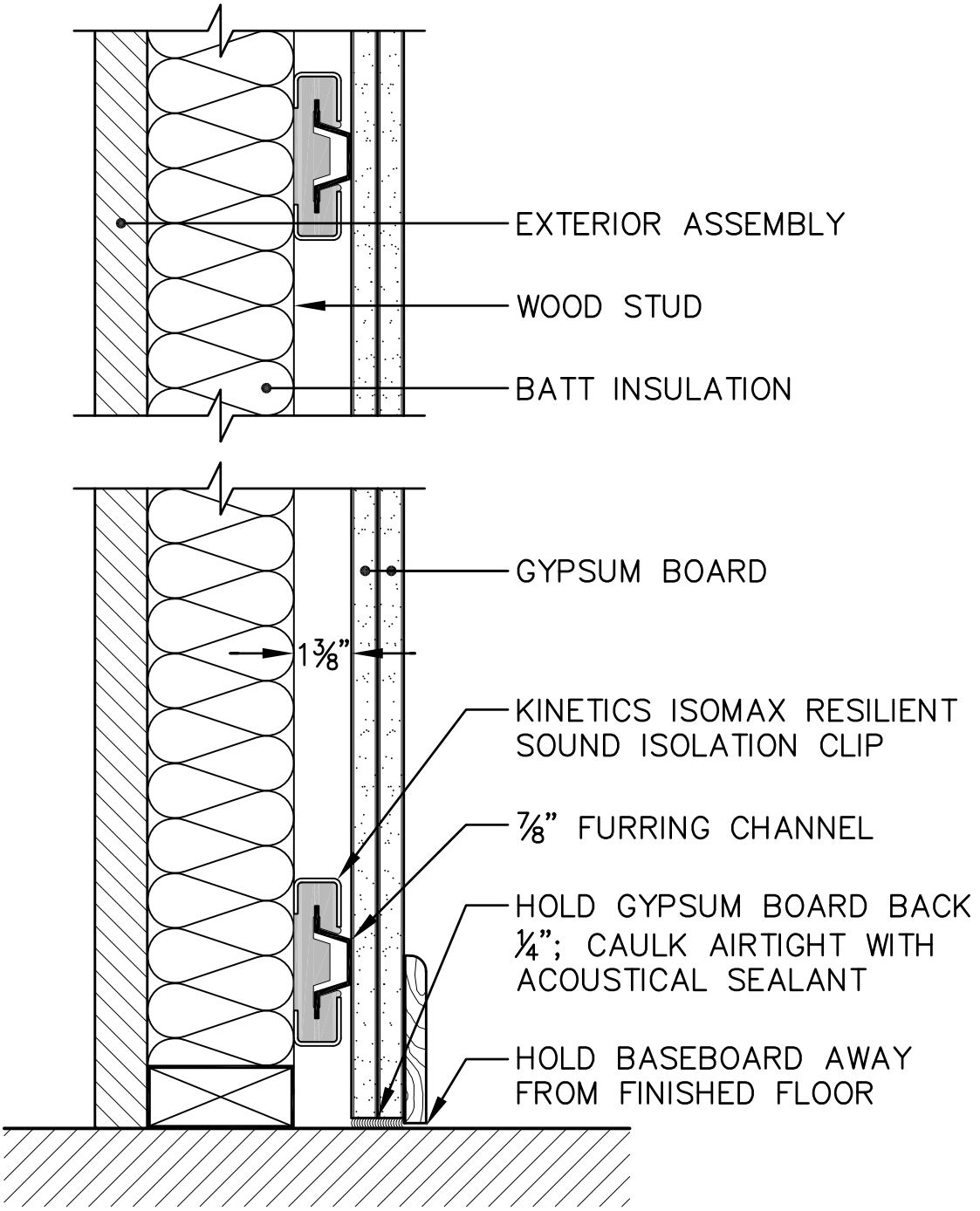
UPGRADED EXTERIOR ASSEMBLY

FIGURE 10

1256G WRS/AKS
1.1.1.3 03.15.19



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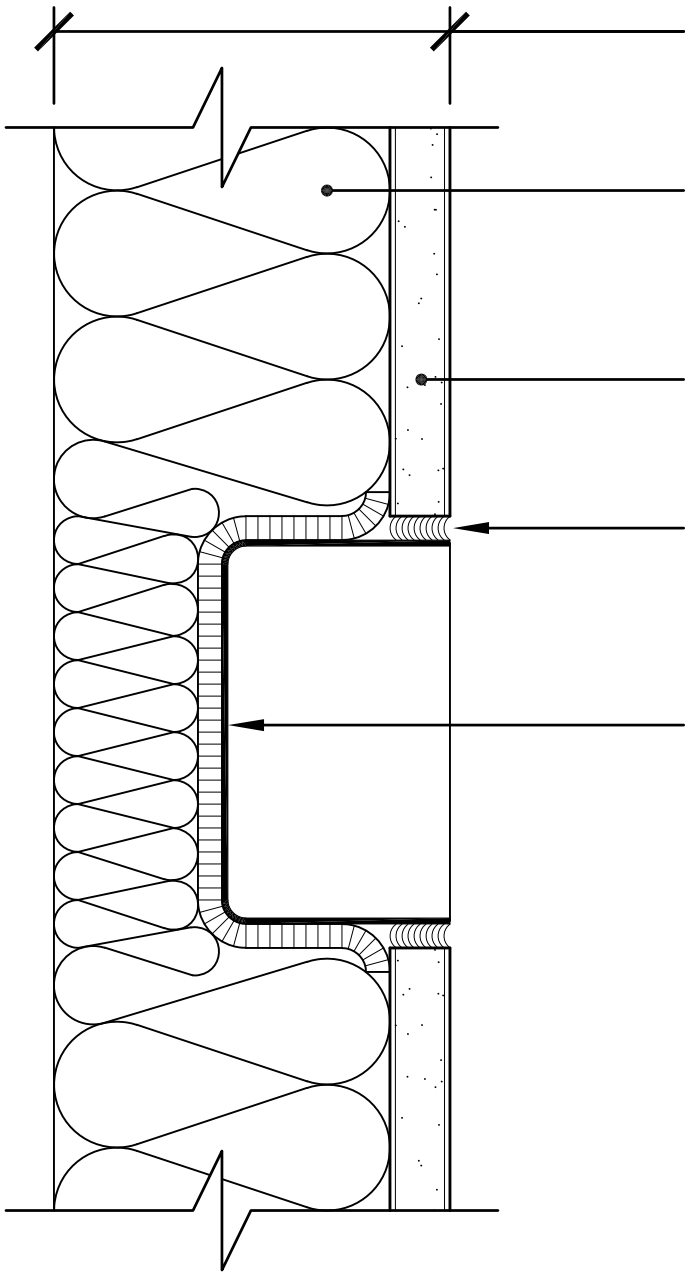
RESILIENTLY–ISOLATED WALL

FIGURE 11

381A WRS/AKS
1.1.6 03.15.19



NOTES:

1. SEPARATE BOXES ON OPPOSITE SIDES OF THE WALL BY 16" MIN.
2. CEILING CONDITIONS SIMILAR
3. APPLICABLE AT ALL SOUND–RATED CONSTRUCTION, INCLUDING INTERIOR INSULATED ASSEMBLIES
4. INSTALL LOW–VOLTAGE DEVICES IN BOXES
5. WHERE NEEDED, FIRE–RATED PUTTY PADS MAY BE USED

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JUNCTION BOX IN SOUND–RATED CONSTRUCTION

FIGURE 12

49 EBM
3.2.1 03.14.17

Appendix K

Traffic Impact Analysis and Vehicle Miles Traveled Memorandum

HEXAGON TRANSPORTATION CONSULTANTS, INC.

1001 North Shoreline Boulevard Residential Development

Transportation Impact Analysis

Prepared for:

Environmental Science Associates, Inc.

September 24, 2019

Hexagon Transportation Consultants, Inc.
Hexagon Office: 4 North Second Street, Suite 400
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Hexagon Job Number: 17MH17
Phone: 408.971.6100
Client Name: Environmental Science Associates, Inc.

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Executive Summary

This report presents the results of the transportation impact analysis (TIA) conducted for the proposed residential development at 1001 N. Shoreline Boulevard in Mountain View, California. The proposed residential project is Phase II of a 7.81-acre mixed-use development. Phase I, which is currently fully occupied, contains a 111,443 square foot (s.f.) office building with surface parking for 371 cars. Phase II is proposed to include 203 apartments in one building and 100 condominiums in a separate building. The proposed Phase II also includes 3,000 s.f. of retail space on the ground level of the apartment building. Both proposed residential buildings would be constructed over two floors of podium parking. In addition, the site will include surface parking and a separate parking garage serving the Phase I office space. Only the bottom floor of the office parking garage would be available for use by residents and their guests outside of normal business hours. Vehicular access to and from the project site would be provided via one full access driveway on Terra Bella Avenue and one full access driveway on Linda Vista Avenue.

The potential impacts of the project were evaluated in accordance with the standards set forth by the City of Mountain View and the Santa Clara Valley Transportation Authority (VTA) Congestion Management Program (CMP). The study determined the traffic impacts of the proposed development on 12 signalized intersection during the weekday AM and PM peak hours of traffic. In addition, a freeway segment capacity analysis was conducted, and other traffic operations issues were addressed.

As required by the VTA's TIA Guidelines, an Auto Trip Reduction Statement (ATRS) form is included at the end of the Executive Summary.

Project Trip Generation

Trip generation estimates for the proposed project were based on trip rates published in the Institute of Transportation Engineers' (ITE) *Trip Generation Manual, 10th Edition* (2017). Trips generated by the proposed residential development were estimated by applying the average rates for multifamily family (mid-rise) to the proposed/existing number of units. The retail tenant is unknown at this time. For the purpose of this study, the proposed retail component was assumed to be a coffee shop. This is a conservative assumption since a coffee shop would generate more trips than other retail uses that might occupy the space. Trips generated by the proposed retail component were estimated by applying the average rates for a coffee shop to the proposed square footage.

The gross project trip estimates were reduced to account for the mixed-use development and for retail pass-by trips. The proposed TDM Plan has not yet been finalized so the potential trip reduction achieved by TDM is uncertain. Thus, the traffic analysis does not assume any trip reductions based on TDM.

After applying the trip reductions, the project is estimated to generate 2,597 net new daily trips, with 291 net new trips (123 inbound trips and 168 outbound trips) occurring during the AM peak hour and 178 net new trips (103 inbound trips and 75 outbound trips) occurring during the PM peak hour.

Intersection Level of Service Analysis

The results of the intersection level of service analysis show that some intersections would operate at an unacceptable level (LOS E or F). However, the impact of the project traffic would be less than significant.

Freeway Segment Capacity Analysis

The project would contribute trips equivalent to less than one percent of the capacity on each of the studied freeway segments. Thus, the project would have an insignificant impact on nearby freeway segments.

Freeway Ramp Operations Analysis

The existing on-ramp storage is expected to be adequate to serve the vehicle queues that would occur with the addition of project-generated traffic.

Neighborhood Traffic Conditions

The project is expected to increase the daily traffic volumes on the following study segments by at least 25 percent:

- Linda Vista Avenue south of Terra Bella Avenue
- Terra Bella Avenue east of Shoreline Boulevard

According to the City's Neighborhood Traffic Management Program (NTMP), traffic-calming measures may be implemented to eliminate the perceived travel time savings incentive and to reduce the volume of cut through traffic. Installation of traffic-calming devices is conducted following a multi-step process that includes neighborhood meetings and a post-card survey of affected residents and property owners. Some traffic-calming measures require approval of the Council Transportation Committee and the full City Council.

Vehicle Miles Travelled (VMT) Analysis

Pursuant to SB 743, cities have until July 2020 to adopt the new procedures to identify environmental impacts based on VMT rather than level of service. The City of Mountain View has not yet adopted any standards or guidelines related to VMT. Therefore, the qualitative analysis of VMT presented in this report is for information only.

Compared to other locations in the City, the project site is expected to have a lower than average VMT per resident due to its proximity to the North Bayshore employment area, its location immediately adjacent to multiple transit routes and bike lanes on N. Shoreline Boulevard, and its proximity to multiple pedestrian/bike trails and to Caltrain and light rail service at the Mountain View Transit Center. In addition, the project will implement a Transportation Demand Management Plan with a combination of services, incentives, facilities, and actions that reduce single–occupant vehicle trips to help relieve traffic congestion, parking demand, and air pollution problems. Thus, the project is expected to help the City reduce the citywide average VMT per capita.

Intersection Vehicle Queuing

The vehicle queuing analysis shows that the maximum southbound left-turn vehicle queue at the Shoreline Boulevard/Terra Bella Avenue intersection would exceed the storage capacity during one or both peak hours under all scenarios. The project is expected to increase this queue by two to three vehicles during the peak hours exacerbating the existing queue storage deficiency. It may be possible to extend the left-turn pocket beyond the current length; however, it is not possible to accommodate the projected maximum queue length of 450 feet due to the planned bus lane that will run in the median.

The queue storage deficiency at this intersection is partly due to the existing congestion on the northbound US 101 off ramp to Shoreline Boulevard during the peak morning commute period. The North Bayshore Precise Plan identifies improvements to the northbound US 101 off ramp to Shoreline Boulevard that would alleviate the existing congestion at the off ramp eliminating the perceived travel time savings gained by making a U-turn at Terra Bella Avenue. Without the U-turn traffic, the 95th percentile queue at Terra Bella would be 275 feet. Thus, after the planned gateway transportation improvements are completed, the need for additional turn pocket storage would wane as queues would overflow the existing turn pocket storage in about one of every three signal cycles during the AM peak hour and only about one out of ten signal cycles during the PM peak hour.

Site Access and Circulation

Pedestrian and bicycle access to and within the project site is generally adequate. The project would provide a public pedestrian/bicycle path through the middle of the site to connect N. Shoreline Boulevard with Linda Vista Avenue. The project would provide secure bicycle storage for residents on the ground level of the parking garage in Block B and on both the ground level and the upper level of the parking garage in Block A. For ease of access and to avoid residents riding down the garage ramp or bringing bicycles into elevators, it is recommended the project applicant locate all bicycle storage at the ground level. Ramps used by vehicles to travel between different levels would have slopes up to 20 percent. It is recommended that proper signage be installed at these ramps to prohibit use by pedestrians or bicycles.

Vehicular access to the project site would be provided via one driveway on Terra Bella Avenue and one driveway on Linda Vista Avenue. The proposed driveway widths are acceptable. Given the low traffic volume and low travel speed on Terra Bella Avenue and Linda Vista Avenue, the proposed project driveways are expected to operate acceptably.

The project driveways should be free and clear of any obstructions to optimize sight distance, thereby ensuring that exiting vehicles can see pedestrians on the sidewalk and other vehicles traveling on Terra Bella and Linda Vista Avenues. Any landscaping, parking, and signage should be located in such a way to ensure an unobstructed view for drivers entering and exiting the site.

The width of all drive aisles and parking ramps and the parking space dimensions meet City standards. The site plan shows good circulation in most areas. The condominium parking garage includes dead-end drive aisles where the last two parking stalls would be very close to the garage wall. Parking garage designs should include space at the end of a dead-end aisle for drivers to back into in order to more easily exit the parking stall. We recommend that such “back-up pockets” be provided at the end of each dead-end drive aisle to facilitate backing out of the last parking stalls in those rows.

The ramps in the proposed residential garages are shown to have a maximum slope of 20% with 10% transitions on each side. These dimensions are acceptable since the ramps are covered (i.e. protected from weather) and not used for pedestrian walkways. It should be noted that most ramp users will be residents, and thus, will quickly become accustomed to steeper grades.

Table ES- 1
Intersection Level of Service Summary

#	Intersection	LOS Standards	Peak Hour	Count Date	Existing		Existing + Project				Background						Cumulative					
											No Project		with Project				No Project		with Project			
					Avg Delay	LOS	Avg Delay	LOS	Incr. In Crit. Delay	Incr. In Crit. V/C	Avg Delay	LOS	Avg Delay	LOS	Incr. In Crit. Delay	Incr. In Crit. V/C	Avg Delay	LOS	Avg Delay	LOS	Incr. In Crit. Delay	Incr. In Crit. V/C
1	Shoreline Boulevard and Pear Avenue[1]	D	AM	09/25/18	**80+**	**F**	**80+**	**F**	0.2	0.003	**80+**	**F**	**80+**	**F**	0.2	0.003	**80+**	**F**	**80+**	**F**	0.2	0.003
			PM	09/25/18	35.6	D+	35.6	D+	0.0	0.002	35.6	D+	35.7	D+	0.0	0.002	37.0	D+	37.0	D+	0.0	0.002
2	Shoreline Boulevard and US101 NB Off-Ramp/La Avenida[1]	D	AM	09/25/18	**80+**	**F**	**80+**	**F**	0.2	0.003	**80+**	**F**	**80+**	**F**	0.8	0.003	**80+**	**F**	**80+**	**F**	1.1	0.003
			PM	09/25/18	**80+**	**F**	**80+**	**F**	0.6	0.009	**80+**	**F**	**80+**	**F**	0.6	0.004	**80+**	**F**	**80+**	**F**	1.0	0.007
3	Shoreline Boulevard and US101/SR 85 SB Ramps[2]	D	AM	09/25/18	17.7	B	17.9	B	-0.1	0.008	18.5	B-	18.5	B-	0.2	0.011	19.0	B-	19.1	B-	0.2	0.011
			PM	09/25/18	17.9	B	18.0	B-	5.4	0.067	16.0	B	16.3	B	0.4	0.014	16.6	B	16.8	B	0.4	0.014
4	Shoreline Boulevard and Terra Bella Avenue[2]	D	AM	09/25/18	20.8	C+	25.9	C	5.8	0.069	27.9	C	34.2	C-	7.9	0.090	29.1	C	35.8	D+	8.5	0.090
			PM	09/25/18	17.6	B	19.3	B-	0.2	-0.001	27.3	C	30.8	C	3.1	0.020	28.5	C	32.0	C-	3.1	0.020
5	Shoreline Boulevard and Middlefield Road[2]	D	AM	09/25/18	44.7	D	45.5	D	1.3	0.021	45.3	D	45.8	D	1.0	0.016	47.7	D	48.5	D	1.3	0.016
			PM	09/25/18	50.9	D	51.3	D-	0.4	0.007	52.3	D-	52.8	D-	-7.0	0.002	**59.0**	**E+**	**59.7**	**E+**	0.9	0.006
6	Shoreline Boulevard and Montecitio Avenue	D	AM	09/25/18	22.5	C+	22.4	C+	0.0	0.008	22.3	C+	22.2	C+	0.0	0.008	23.0	C	23.0	C	0.0	0.008
			PM	09/25/18	28.5	C	28.5	C	0.0	0.005	28.7	C	28.6	C	0.0	0.005	30.6	C	30.6	C	0.0	0.005
7	Rengstorff Avenue and Middlefield Road	D	AM	09/25/18	31.0	C	31.3	C	0.3	0.009	31.5	C	31.8	C	0.3	0.009	32.2	C-	32.5	C-	0.3	0.009
			PM	09/25/18	35.3	D+	35.4	D+	0.1	0.005	35.4	D+	35.5	D+	0.1	0.005	36.3	D+	36.4	D+	0.2	0.005
8	Moffett Boulevard and Middlefield Road	D	AM	09/25/18	35.7	D+	36.0	D+	0.7	0.018	38.5	D+	39.2	D	1.6	0.026	41.3	D	42.6	D	2.6	0.026
			PM	09/25/18	38.8	D+	39.1	D	0.4	0.008	41.4	D	41.9	D	0.5	0.008	44.9	D	45.5	D	0.8	0.008
9	Moffett Boulevard and SR 85 NB Ramps	D	AM	09/25/18	7.7	A	7.7	A	0.0	0.004	9.3	A	9.3	A	0.0	0.000	9.8	A	9.8	A	0.0	0.000
			PM	09/25/18	9.0	A	9.0	A	0.0	0.000	8.7	A	8.7	A	0.0	0.000	9.3	A	9.3	A	0.0	0.000
10	Moffett Boulevard and Leong Drive	D	AM	09/25/18	22.8	C+	22.8	C+	0.1	0.000	20.9	C+	20.9	C+	0.0	0.000	22.3	C+	22.3	C+	0.0	0.000
			PM	09/25/18	19.2	B-	19.2	B-	0.0	0.000	28.4	C	28.5	C	0.1	0.000	37.0	D+	37.1	D+	0.2	0.000
11	Whisman Road and Middlefield Road	D	AM	09/25/18	31.7	C	31.8	C	0.4	0.010	31.4	C	31.5	C	0.4	0.010	31.8	C	32.0	C	0.4	0.010
			PM	09/25/18	35.2	D+	35.2	D+	0.2	0.008	36.5	D+	36.5	D+	0.1	0.004	37.9	D+	38.0	D+	0.2	0.004
12	Ellis Street and Middlefield Road	D	AM	09/25/18	18.5	B-	18.5	B-	0.0	0.002	18.7	B-	18.7	B-	0.0	0.002	20.2	C+	20.2	C+	0.1	0.002
			PM	09/25/18	21.5	C+	21.5	C+	0.0	0.003	21.5	C+	21.5	C+	0.0	0.003	21.9	C+	22.0	C+	0.0	0.003

Notes:
Bold indicates a substandard level of service.
1. The calculated LOS does not reflect the unmet vehicle demand that cannot get through the intersection during the peak hour. Field observations indicate that the intersection operates at LOS F with 80+ seconds of average delay during one or both peak hours
2. The calculated LOS is based on the overall average traffic delay for all movements. While the intersection currently operates at an acceptable level overall, the northbound through movements during the AM peak hour are affected by queue spillback from downstream intersections. However, observations show that generally the queues clear during each cycle and do not significantly affect the operation of the intersection overall.

1. Introduction

This report presents the results of the transportation impact analysis (TIA) conducted for the proposed residential development at 1001 N. Shoreline Boulevard in Mountain View, California. The project site is bounded by US 101 on the north, Linda Vista Avenue on the east, Terra Bella Avenue on the south, and N. Shoreline Boulevard on the west. The proposed residential project is Phase II of a 7.81-acre mixed-use development. Phase I, which is currently fully occupied, contains a 111,443 square foot (s.f.) office building with surface parking for 371 cars. Phase II is proposed to include 203 apartments in one building and 100 condominiums in a separate building. The proposed Phase II also will include 3,000 s.f. of retail space on the ground level of the apartment building. Both proposed residential buildings would be constructed over two floors of podium parking. In addition, the site will include surface parking and a separate parking garage serving the Phase I office space. The bottom floor of the office parking garage would be available for use by residents and their guests outside of normal business hours. Vehicular access to and from the project site would be provided via one full-access driveway on Terra Bella Avenue and one full-access driveway on Linda Vista Avenue. The project site and the surrounding study area are shown on Figure 1. The project site plan is shown on Figure 2.

Scope of Study

This study was conducted for the purpose of identifying the potential traffic impacts related to the proposed development and to satisfy the requirements of the California Environmental Quality Act (CEQA), the City of Mountain View, and the Santa Clara County Congestion Management Program (CMP). The traffic analysis is based on the AM and PM peak-hour level of service for twelve signalized intersections, three freeway segments, and three freeway ramps in the vicinity of the project site. The study intersections, freeway segments, and freeway ramps are identified below.

Study Intersections

1. N. Shoreline Boulevard and Pear Avenue
2. N. Shoreline Boulevard and US 101 NB Off-Ramps/La Avenida Street
3. N. Shoreline Boulevard and US 101/SR 85 SB Ramps
4. N. Shoreline Boulevard and Terra Bella Avenue
5. N. Shoreline Boulevard and Middlefield Road
6. N. Shoreline Boulevard and Montecito Avenue
7. Rengstorff Avenue and Middlefield Road
8. Moffett Boulevard and Middlefield Road
9. Moffett Boulevard and Highway 85 NB Off Ramp
10. Moffett Boulevard and Leong Drive

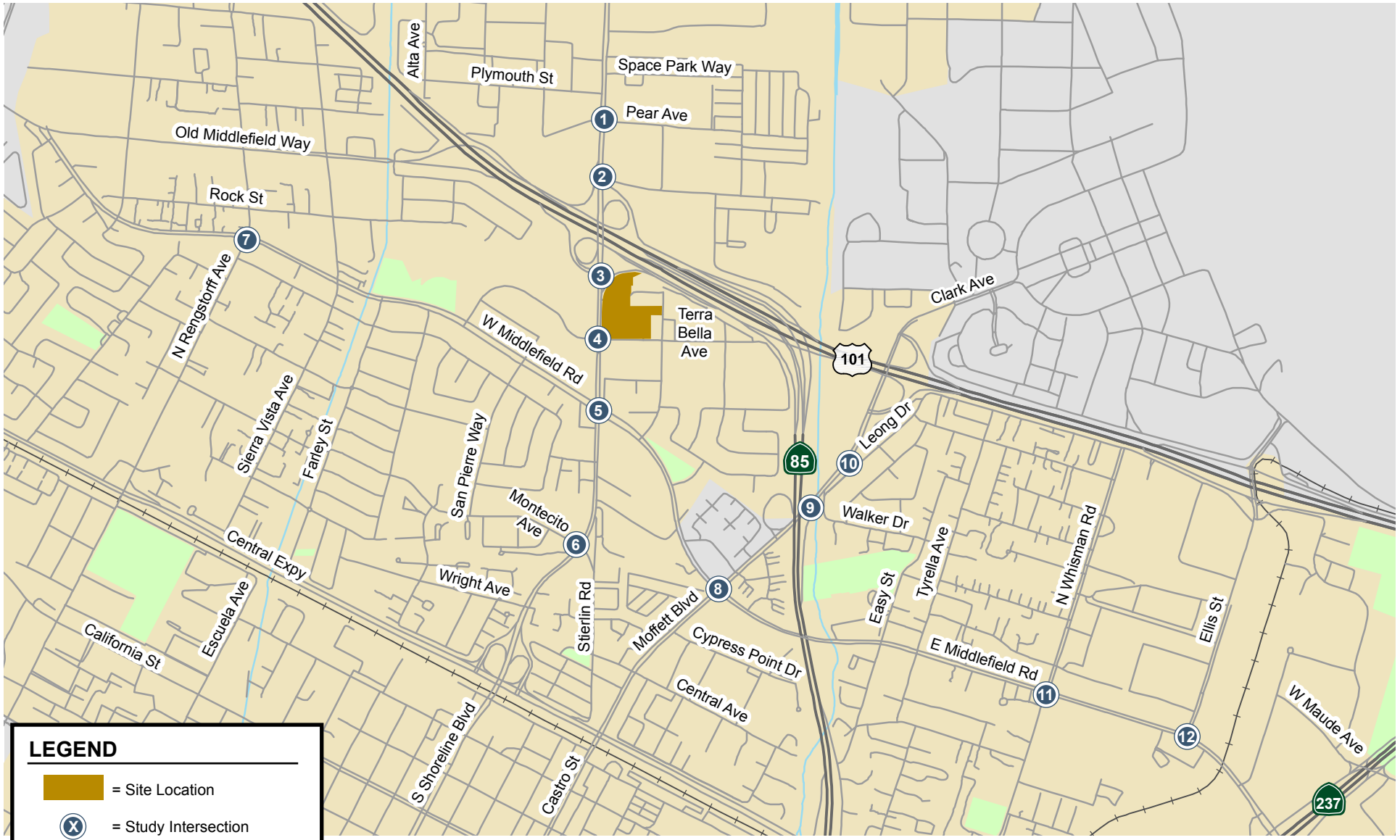

Figure 1
Site Location and Study Intersections



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: Urban Design
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Mountain View, California

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ILLUSTRATIVE SITE PLAN

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Scale:
Drawn By:

Sheet No:
SP200

Figure 2
Proposed Project Site Plan

NORTH
Not to Scale

11. Whisman Road and Middlefield Road
12. Ellis Street and Middlefield Road

Study Freeway Segments

1. US 101 between Moffett Boulevard and SR 85
2. US 101 between SR 85 and N. Shoreline Boulevard
3. US 101 between N. Shoreline Boulevard and Rengstorff Avenue

Study Freeway Ramps

1. US 101 SB On-Ramp from NB N. Shoreline Boulevard
2. SR 85 SB On-Ramp from NB N. Shoreline Boulevard
3. US 101 SB On-Ramp from NB N. Shoreline Boulevard

In addition, the project's effect on neighborhood traffic conditions were evaluated on the two street segments identified below.

Study Street Segments

1. Linda Vista Avenue south of Terra Bella Avenue
2. Terra Bella Avenue east of Shoreline Boulevard

Analysis Time Periods

Traffic conditions at the study intersections were analyzed for the weekday AM and PM peak hours of adjacent street traffic. In the study area, the AM peak hour is typically between 7:00 AM and 10:00 AM, and the PM peak hour is typically between 4:00 PM and 7:00 PM on a regular weekday. These are the peak commute hours during which most weekday traffic congestion occurs on study area roadways.

Analysis Scenarios

Traffic conditions were evaluated for the following scenarios:

Scenario 1: *Existing Conditions.* Existing AM and PM peak-hour traffic volumes were obtained from new manual turning-movement counts conducted in September 2018. The existing counts include traffic generated by the Phase I office building on the project site. The study intersections were evaluated with a level of service analysis using the TRAFFIX software in accordance with the *2000 Highway Capacity Manual* methodology.

Scenario 2: *Existing Plus Project Conditions*. Existing plus project traffic volumes were estimated by adding to existing traffic volumes the trips associated with the proposed project (Phase II). Existing plus project conditions were evaluated relative to existing conditions in order to determine potential project impacts.

Scenario 3: *Background Conditions*. Background traffic volumes were estimated by adding to existing traffic volumes the projected volumes from approved but not yet constructed developments in the vicinity of the project. Lists of approved but not yet completed developments were provided by the City of Mountain View. The roadway network under background conditions is assumed to include the Shoreline Boulevard bus lane improvement project.

Scenario 4: *Background Plus Project Conditions.* Background plus project traffic volumes were estimated by adding to background traffic volumes the new trips associated with the

proposed project. Background plus project conditions were evaluated relative to background conditions in order to determine potential project impacts.

Scenario 5: *Cumulative No Project Conditions.* Cumulative no project traffic volumes were estimated by applying a two percent annual growth factor for five years to existing (2018) traffic volumes and adding trips associated with approved developments in the project vicinity. The roadway network under cumulative conditions would be the same as the background roadway network.

Scenario 6: *Cumulative Plus Project Conditions.* Cumulative plus project traffic volumes were estimated by adding to cumulative no project traffic volumes the additional traffic generated by the proposed project. Cumulative plus project conditions were evaluated relative to cumulative no project conditions in order to determine potential impacts.

Methodology

This section describes the methods used to determine the traffic conditions for each scenario described above. It includes descriptions of the data requirements, the analysis methodologies, and the applicable level of service standards.

Data Requirements

The data required for the analysis were obtained from new traffic counts, the City of Mountain View, VTA, recently published TIA reports for nearby developments, and field observations. The following data were collected from these sources:

- existing traffic volumes,
- lane configurations,
- intersection signal timing and phasing,
- a list of approved but not yet completed projects/improvements, and
- freeway ramp metering rates and queue lengths.

Analysis Methodologies and Level of Service Standards

Traffic conditions were evaluated using level of service (LOS). *Level of Service* is a qualitative description of operating conditions ranging from LOS A, or free-flow conditions with little or no delay, to LOS F, or forced-flow conditions with extreme delays. The level of service analysis was supplemented with a queuing analysis for selected movements at the study intersections. In addition, a freeway segment analysis and freeway ramp analysis were completed for selected freeway segments and on ramps in the project vicinity. The analysis methods are described further below.

Intersection Level of Service Analysis

The City of Mountain View level of service methodology for signalized intersections is the *2000 Highway Capacity Manual (HCM)* method. This method is applied using the TRAFFIX software. The *2000 HCM* operations method evaluates signalized intersection operations based on average control delay time for all vehicles at the intersection. Since TRAFFIX is also the CMP-designated intersection level of service methodology, the City of Mountain View methodology employs the CMP default values for the analysis parameters. The City of Mountain View level of service standard for signalized intersections is LOS D or better, except for CMP intersections and intersections in the Downtown and the San Antonio Center planning areas, where the standard is LOS E. All the signalized intersections evaluated in this report are subject to the LOS D standard. The correlation between average control delay and level of service is shown in Table 1.

Table 1
Signalized Intersection Level of Service Definitions Based on Control Delay

Level of Service	Description	Average Control Delay Per Vehicle (sec.)
A	Signal progression is extremely favorable. Most vehicles arrive during the green phase and do not stop at all. Short cycle lengths may also contribute to the very low vehicle delay.	10.0 or less
B	Operations characterized by good signal progression and/or short cycle lengths. More vehicles stop than with LOS A, causing higher levels of average vehicle delay.	10.1 to 20.0
C	Higher delays may result from fair signal progression and/or longer cycle lengths. Individual cycle failures may begin to appear at this level. The number of vehicles stopping is significant, though some vehicles may still pass through the intersection without stopping.	20.1 to 35.0
D	The influence of congestion becomes more noticeable. Longer delays may result from some combination of unfavorable signal progression, long cycle lengths, or high volume-to-capacity (V/C) ratios. Many vehicles stop and individual cycle failures are noticeable.	35.1 to 55.0
E	This is considered to be the limit of acceptable delay. These high delay values generally indicate poor signal progression, long cycle lengths, and high volume-to-capacity (V/C) ratios. Individual cycle failures occur frequently.	55.1 to 80.0
F	This level of delay is considered unacceptable by most drivers. This condition often occurs with oversaturation, that is, when arrival flow rates exceed the capacity of the intersection. Poor progression and long cycle lengths may also be major contributing causes of such delay levels.	greater than 80.0

Source: Transportation Research Board, *2000 Highway Capacity Manual* (Washington, D.C., 2000), p.10-16.

Intersection Vehicle Queuing Analysis

For selected high-demand movements at the study intersections, the estimated maximum vehicle queues were compared to the existing or planned storage capacity. The queuing analysis is used to determine the appropriate storage lengths for the high-demand turn lanes where the project would add a substantial number of trips to these movements. Vehicle queues were estimated using a Poisson probability distribution, which estimates the probability of "n" vehicles for a vehicle movement using the following formula:

$$\text{Probability } (X=n) = \frac{\lambda^n e^{-(\lambda)}}{n!}$$

Where:

Probability (X=n) = probability of "n" vehicles in queue per lane

n = number of vehicles in the queue per lane

λ = Average number of vehicles in queue per lane (vehicles per hour per lane/signal cycles per hour)

The basis of the analysis is as follows: (1) the Poisson probability distribution is used to estimate the 95th percentile maximum number of queued vehicles per signal cycle for a particular movement; (2) the estimated maximum number of vehicles in the queue is translated into a queue length, assuming 25 feet per vehicle; and (3) the estimated maximum queue length is compared to the existing or planned available storage capacity for the movement.

For signalized intersections, the 95th percentile queue length value indicates that during the peak hour, a queue of this length or less would occur on 95 percent of the signal cycles. Or, a queue length larger than the 95th percentile queue would only occur on 5 percent of the signal cycles (about 3 cycles during the peak hour for a signal with a 60-second cycle length). Therefore, left-turn storage pocket designs based on the 95th percentile queue length would ensure that storage space would be exceeded only 5 percent of the time. The 95th percentile queue length is also known as the "design queue length."

Freeway CMP Guidelines

As prescribed in the CMP technical guidelines, the level of service for freeway segments is estimated based on vehicle density. Density is calculated by the following formula:

$$D = V / (N*S)$$

where:

D= density, in vehicles per mile per lane (vpmpl)

V= peak hour volume, in vehicles per hour (vph)

N= number of travel lanes

S= average travel speed, in miles per hour (mph)

The CMP requires that mixed-flow lanes and auxiliary lanes be analyzed separately from high-occupancy vehicle (HOV) lanes (otherwise known as carpool lanes). The CMP specifies that a capacity of 2,300 vehicles per hour per lane (vphpl) be used for segments three lanes or wider in one direction and a capacity of 2,200 vphpl be used for segments two lanes wide in one direction. HOV lanes are specified as having a capacity of 1,650 vphpl. The CMP defines an acceptable level of service for freeway segments as LOS E or better.

Freeway Ramp Analysis

A freeway ramp analysis was performed in order to verify that the metered freeway on-ramps would have sufficient capacity to serve the expected traffic volumes with and without the project. Ramp operations at the on-ramps were based on field observations and vehicle queue lengths and metering rates measured in the field during the AM and PM peak hours of traffic. It should be noted that the evaluation of freeway ramps is not required based on the VTA's TIA guidelines, nor are there adopted methodologies and impact criteria for the analysis of freeway ramps. Therefore, the freeway on-ramp analysis is presented for informational purposes only.

Significant Impact Criteria

Significance criteria are used to establish what constitutes an impact. For this analysis, the criteria used to determine significant impacts on signalized intersections are based on City of Mountain View level of service standards.

City of Mountain View Definition of Significant Intersection Impact

The project is said to create a significant adverse impact on traffic conditions at a signalized intersection in the City of Mountain View if for either peak hour:

1. The level of service at the intersection drops below its respective level of service standard when project traffic is added, or
2. The intersection is already operating at an unacceptable level of service under background conditions and the addition of project traffic causes both the critical-movement delay at the intersection to increase by four or more seconds and the volume-to-capacity ratio (V/C) to increase by one percent (.01) or more.

The exception to this threshold is when the addition of project traffic reduces the amount of average control delay for critical movements, i.e., the change in average control delay for critical movements are negative. In this case, the threshold is when the project increases the critical v/c value by 0.01 or more.

A significant impact is said to be satisfactorily mitigated when measures are implemented that would restore intersection conditions to its acceptable level of service or to an average delay that is better than no-project conditions.

Freeway Segments

A development is said to create a significant adverse impact on traffic conditions on a CMP freeway segment if for either peak hour:

1. The level of service on the freeway segment degrades from an acceptable LOS E or better under existing conditions to an unacceptable LOS F under project conditions or,
2. The level of service on the freeway segment is an unacceptable LOS F under project conditions, and the number of project trips on that segment constitutes at least one percent (0.01) of capacity on that segment.

A significant impact by CMP standards is said to be satisfactorily mitigated when measures are implemented that would restore freeway conditions to background conditions or better.

Transit Services

Significant impacts to transit service would occur if the project or any part of the project:

- Disrupts existing transit services or facilities; or
- Conflicts with an existing or planned transit facility; or
- Conflicts with transit policies adopted by the City of Mountain View, VTA, or Caltrans for their respective facilities in the study area.

Bicycle and Pedestrian Facilities

The Mountain View 2030 General Plan (July 2012) describes related policies necessary to ensure pedestrian and bicycle facilities are safe and effective for City residents. Using the General Plan as a guide, significant impacts to these facilities would occur when a project or an element of the project:

- Creates a hazardous condition that does not currently exist for pedestrians and bicyclists, or otherwise interferes with pedestrian accessibility to the site and adjoining areas; or
- Conflicts with an existing or planned pedestrian or bicycle facility; or
- Conflicts with policies related to bicycle and pedestrian activity adopted by the City of Mountain View, VTA, or Caltrans for their respective facilities in the study area.

Report Organization

The remainder of this report is divided into five chapters. Chapter 2 describes existing conditions, including the existing roadway network, transit service, bicycle and pedestrian facilities, and intersection and freeway segment operations. Chapter 3 presents the intersection operations under background conditions. Chapter 4 describes the methods used to estimate the project traffic on the roadway network and presents the intersection and freeway segment operations under existing plus project conditions and background plus project conditions. Chapter 5 presents the intersection operations under cumulative conditions. Chapter 6 provides an evaluation of other transportation-related issues, such as vehicle queuing, freeway ramp operations, effects on bicycle, pedestrian, and transit facilities, site access, and on-site circulation.

2. Existing Conditions

This chapter describes the existing conditions for all the major transportation facilities in the vicinity of the site, including the roadway network, transit service, and bicycle and pedestrian facilities.

Existing Roadway Network

Regional access to the project site is provided by US 101 and SR 85. Local access to the project site is provided via N. Shoreline Boulevard, Middlefield Road, Terra Bella Avenue, and Linda Vista Avenue.

US 101 is a north-south freeway that extends through and beyond the Bay Area, connecting San Francisco to San Jose. US 101 is eight lanes wide (three mixed-flow lanes and one HOV lane in each direction) in the vicinity of the project site. US 101 provides access to the study area via a full interchange at N. Shoreline Boulevard.

SR 85 is a north-south freeway that begins at US 101, east of N. Shoreline Boulevard and extends south towards San Jose and terminates at US 101 east of the Silicon Valley Boulevard/Bernal Road interchange. SR 85 is six lanes wide (two mixed-flow lanes and one HOV lane in each direction) in the vicinity of the project. SR 85 provides access to the project study area via an interchange at Moffett Boulevard.

N. Shoreline Boulevard is a north-south arterial that extends northward from El Camino Real (SR 82) across US 101 to the San Francisco Bay. The City's General Plan classifies N. Shoreline Boulevard as an avenue. The four-lane roadway has a landscaped median with left-turn pockets, bike lanes and sidewalks on both sides of the street north of Terra Bella Avenue. South of Terra Bella Avenue, N. Shoreline Boulevard has a two-way left-turn lane. On-street parking is prohibited on N. Shoreline Boulevard.

Middlefield Road is an east-west four-lane arterial that runs parallel to US 101. It begins at the intersection of Central Expressway in Mountain View and traverses west through Redwood City. Middlefield Road is listed as an avenue in the City's General Plan. The major intersections along Middlefield Road are signalized. Middlefield Road has a landscaped median with left-turn pockets, bike lanes, and sidewalks on both sides of the street. On-street parking is permitted on certain segments of Middlefield Road between the hours of 7:00 PM and 2:00 AM.

Terra Bella Avenue is a two-lane collector street with on-street parking on both sides of the street. It extends eastward from Middlefield Road to east of San Rafael Avenue, at which point it transitions into San Leandro Avenue. Based on the surrounding land uses and function, Terra Bella Avenue is classified as an avenue in the City's General Plan. Sidewalks are present on both sides of the street. Terra Bella Avenue provides direct access to the project site via one full-access driveway. The

unsignalized intersection at Terra Bella Avenue and Linda Vista Avenue is raised similar to a speed hump to reinforce slow speeds and encourage motorists to yield to pedestrians at the crosswalk.

Linda Vista Avenue is a local two-lane street with on-street parking on both sides of the street. It extends northward from Middlefield Road to a dead-end just south of US 101. The City's General Plan classifies Linda Vista Avenue as a flexible street north of Moonbeam Drive and a residential street south of Moonbeam Drive. Sidewalks are present on both sides of the street. Linda Vista Avenue provides direct access to the project site via one full-access driveway. In the fall of 2017, traffic calming measures were implemented including a raised intersection at Terra Bella Avenue and Linda Vista Avenue and speed humps on the segment of Linda Vista Avenue between Terra Bella Avenue and Middlefield Road to

Existing Transit Services

Existing public transit services in the study area are provided by the VTA, the Mountain View Transportation Management Association (TMA), and the City of Mountain View. VTA operates bus and light-rail transit (LRT) services in Santa Clara County, the TMA provides free MVgo shuttle service between the Mountain View Transit Center and corporate campuses in the North Bayshore and Whisman areas, and Mountain View partnering with Google provides free community shuttle service in the City.

The project site is also within easy biking distance (one mile) of the Mountain View Caltrain and LRT stations at the Mountain View Transit Center, which is served by numerous connecting buses.
The VTA bus routes, MVgo shuttle routes, MV community shuttle route, and Caltrain/LRT stations in the project vicinity and the bus/shuttle stops near the project site are shown on Figure 3.

VTA Bus Services

There are four VTA bus routes serving the project vicinity: Routes 32, 40, 185 and 120 with bus stops located at: N. Shoreline Boulevard and Terra Bella Avenue (100 feet from the site), N. Shoreline Boulevard and Middlefield Road (1,000 feet from the site), N. Shoreline Boulevard and La Avenida Street (1,800 feet from the site), and N. Shoreline Boulevard and Pear Avenue (0.5 miles from the site).

The Route 40 bus line operates on N. Shoreline Boulevard, Pear Avenue, Inigo Way, and La Avenida in the project vicinity, providing service between Foothill College and the VTA Maintenance Facility on La Avenida between 6:00 AM and 10:30 PM with 30- to 40-minute headways during the AM and PM peak hours. Within the study area, route 40 stops at the intersection of N. Shoreline Boulevard and La Avenida Street, approximately 1,800 feet north of the project site.

The Route 32 bus line operates on Middlefield Road in the project vicinity, providing service between the San Antonio Shopping Center and the Santa Clara Transit Center. Route 32 operates between 5:45 AM and 8:00 PM with 30-minute headways during the AM and PM peak hours. The bus stops closest to the project site are at the intersection of N. Shoreline Boulevard and Middlefield Road.

The Route 185 bus line operates on N. Shoreline Boulevard in the project vicinity, providing service between the Gilroy Transit Center and Mountain View during commute hours. The line operates three northbound trips during the AM peak period (60-minute headways) and three southbound trips during the PM peak period (60-minute headways). The closest bus stop is located at the intersection of N. Shoreline Boulevard and Terra Bella Avenue, approximately 100 feet south of the project site.

The Route 120 bus line provides express service between the Fremont BART station and the North Bayshore area in Mountain View. Service is limited to five southbound (westbound) trips in the morning and five northbound (eastbound) trips in the afternoon/evening with 30- to 60-minute headways. Within

the project vicinity, the 120 line operates on N. Shoreline Boulevard with a bus stop at Pear Avenue, approximately ½ mile north of the project site.

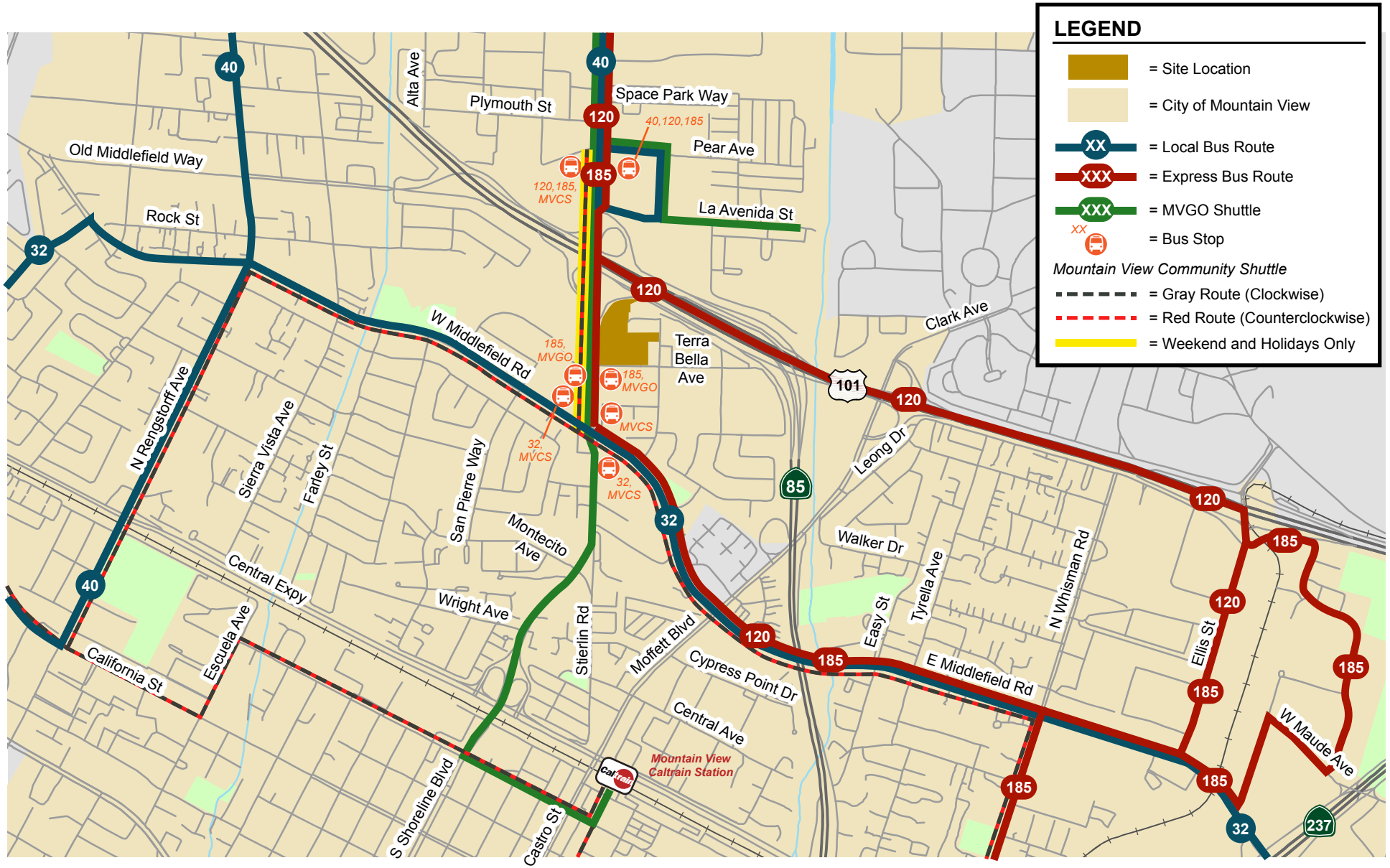


Figure 3
Existing Transit Services

NORTH
Not to Scale

It should be noted that as part of VTA's Next Network 2018-2019 Transit Service Plan, Route 32 would be discontinued and replaced by Route 21, which would not be within walking distance of the project site. In addition, Route 120 would be discontinued due to the extension of BART to Santa Clara County. Route 40 service that currently ends in the North Bayshore area would be extended south on N. Shoreline Boulevard to connect with the Mountain View Transit Center reducing the distance from the project site to the nearest bus stop on this route.

MVgo Shuttles

The TMA currently provides three MVgo shuttle routes that start and end at the Mountain View Transit Center: East Bayshore, West Bayshore, and East Whisman. The shuttle schedule is coordinated with Caltrain arrivals in the morning and departures in the afternoon. The East and West Bayshore Routes serve the project site, with the nearest shuttle stops on N. Shoreline Avenue at Terra Bella Avenue approximately 100 feet south of the project site. The service runs on weekdays, primarily during the peak commute periods with average headways of 15 to 25 minutes.

Mountain View Community Shuttle

The Mountain View Community Shuttle provides free bus service between many residential neighborhoods, senior residences and services, city offices, library, park and recreational facilities, medical offices, shopping centers, and entertainment venues throughout Mountain View. The shuttle service runs from 10 AM to 6 PM with 30-minute headways on weekdays and 60-minute headways on weekends. The shuttle stop closest to the project site is on W. Middlefield Road at N. Shoreline Boulevard, approximately 1,000 feet from the project site.

Altamont Commuter Express (ACE) Orange Shuttle

The Altamont Commuter Express (ACE) Orange Shuttle (Route 824) also serves the project area. ACE provides commuter rail service between Stockton, Tracy, Pleasanton, and San Jose during commute hours. This free shuttle, funded by the Bay Area Air Quality Management District, transports Mountain View passengers to and from the ACE Great America Station in Santa Clara. Service is limited to four westbound trips in the morning and four eastbound trips in the afternoon/evening with headways averaging 60 minutes. The shuttle stop closest to the project site is located at N. Shoreline Boulevard and Pear Avenue, approximately ½ mile north of the project site.

Mountain View Transit Center

The Mountain View Transit Center provides connections to Caltrain, VTA LRT, several VTA bus routes, three MVgo shuttle routes, and the Mountain View Community Shuttle. The transit center is within a reasonable biking distance from the project site (and, as noted below, there are bike lanes and bike routes between the site and the transit center) but is beyond a reasonable walking distance.

Caltrain Commuter Train Service

Caltrain provides frequent commuter train service between San Jose and San Francisco seven days a week, with stops at most cities in between. During the AM peak period between 7:00 and 10:00, There are 10 northbound trains (two baby bullet trains, seven limited-stop trains, and one local train) and 11 southbound trains (five baby bullet trains and six limited-stop trains) serving the Mountain View station.

During the PM peak period between 4:00 and 7:30, there are 13 northbound (five baby bullet trains, seven limited-stop trains, and one local train) and 12 southbound trains (three baby bullet trains, eight limited-stop trains, and one local train) serving the Mountain View station. Bicycles are permitted on Caltrain, and there are bicycle racks and bicycle lockers available at the Mountain View Transit Center.

VTA Light-Rail Transit Service

The VTA operates the 42.2-mile LRT system extending from south San Jose through downtown to the northern areas of San Jose, Santa Clara, Milpitas, Mountain View and Sunnyvale. The service operates nearly 24-hours a day with 15-minute headways during much of the day. The Mountain View-Winchester LRT line (Route 902) operates along Central Expressway within the project vicinity and stops at the Mountain View Transit Center. VTA's Next Network 2018-2019 Transit Service Plan will rename the Route 902 LRT Line as the Green Line and change the northern end to Old Ironsides Light Rail Station. A new LRT route called the Orange Line will be created to connect Downtown Mountain View with the Alum Rock Transit Center.

Existing Bicycle Facilities

The bicycle facilities that exist within one mile of the project site (see Figure 4) include multi-use trails (Class I bikeway), striped bike lanes (Class II bikeway) and shared bike routes/boulevards (Class III bikeway). Bike paths or multi-use trails are shared between pedestrians and bicyclists and separated from motor vehicle traffic. Bike lanes are lanes on roadways designated for use by bicycles with special lane markings, pavement legends, and signage. Bike routes are existing streets that accommodate bicycles but are not separate from the existing travel lanes. Routes are typically designated only with signs. Bike boulevards are modified bike routes offering especially convenient and efficient through-routes for bicyclists of all skill levels.

Within the project area, bike lanes are present along the entirety of Middlefield Road, N. Shoreline Boulevard, Inigo Way, La Avenida Street east of Inigo Way, and Moffett Boulevard north of SR 85. The remainder of Moffett Boulevard is designated as a bike route. Montecito Avenue, Stierlin Road, and Central Avenue are designated as bike boulevards. Although not designated as a bike route, local and collector streets like Linda Vista Avenue and Terra Bella Avenue carry low traffic volumes and are conducive to bicyclists.

Multi-use trails in the project vicinity include the Stevens Creek Trail and the Permanente Creek Trail. The Stevens Creek Trail, located one mile east of the project site, extends from Shoreline at Mountain View Park to Dale Avenue/Heatherstone Way, south of El Camino Real. This paved multi-use path is ideal for bike commuters as it connects to the North Bayshore businesses, the area east of Downtown Mountain View, and residential areas adjacent to the trail. The Stevens Creek Trail provides connections to other bike lanes and routes such as Moffett Boulevard, Middlefield Road and Evelyn Avenue, as well as major bus routes, Caltrain and light rail stations. The trail can be accessed from Middlefield Road and Moffett Boulevard in the project vicinity. Both access points are approximately one mile from the project site. There exist continuous bicycle facilities from both trail access points to the project site. The Permanente Creek Trail extends from the Bay over US 101, under Old Middlefield Road, and ends at W. Middlefield Road, about 0.8 miles from the project site. The availability of these bicycle facilities near the project site could encourage future residents of the proposed project to use an alternative mode of transportation.

Hexagon conducted bicycle counts during the peak commute hours at all study intersections. The bike counts are included in Appendix A. The counts indicate that bike activity within the study area is relatively light. During the AM peak hour, the intersection of Rengstorff Avenue and Middlefield Road received the highest amount of bicycle traffic, with 22 bikes per hour. During the PM peak hour, the intersection of Shoreline Boulevard and Montecito Avenue had the most bikes with 30 bikes per hour. Within the immediate vicinity of the project site, the intersection of N. Shoreline Boulevard and Terra Bella Avenue received less than 10 bikes per hour during both peak hours.

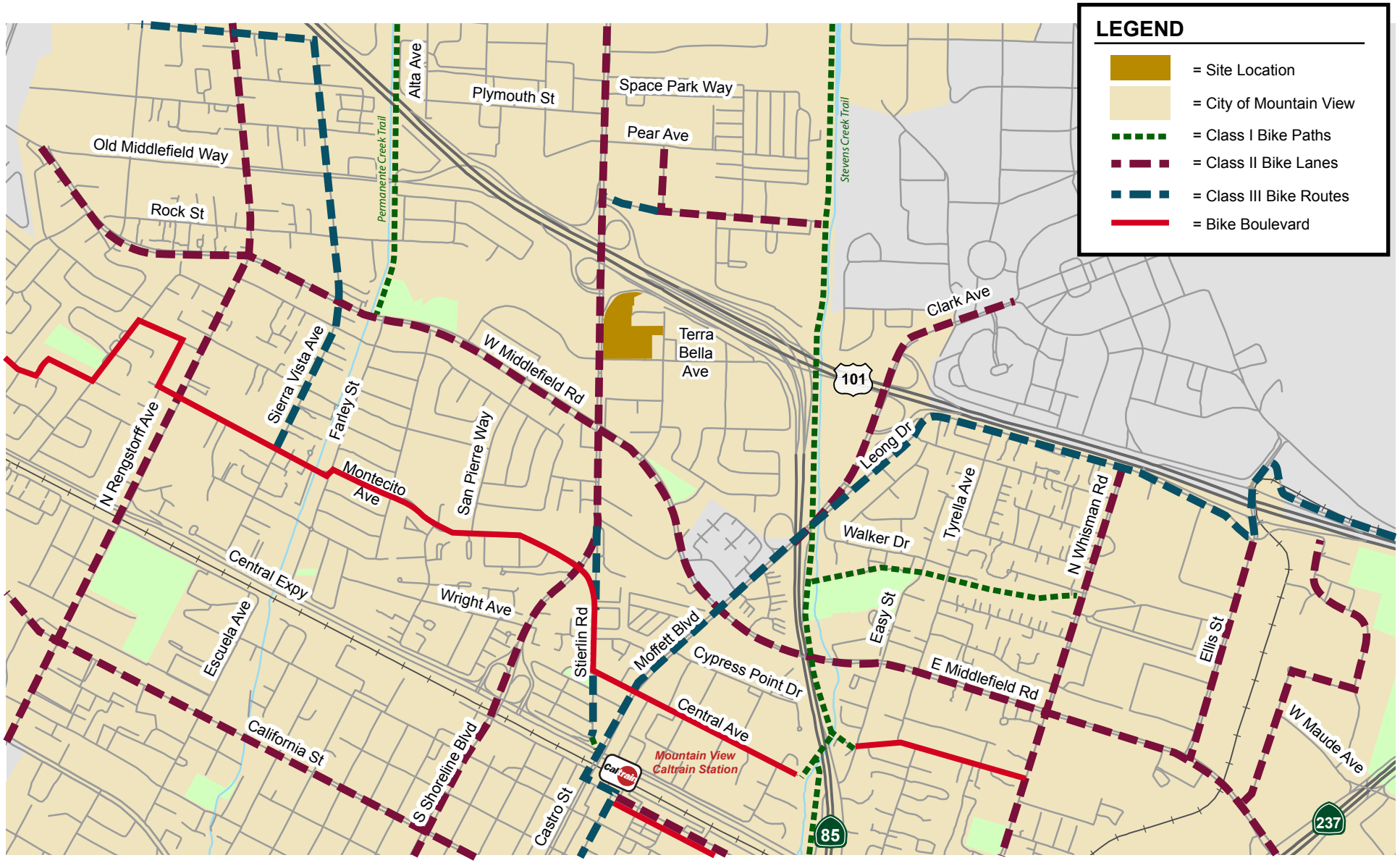


Figure 4
Existing Bicycle Facilities

NORTH
Not to Scale

Existing Pedestrian Facilities

Sidewalks are present along both sides of all study area roadways. The study intersections on N. Shoreline Boulevard at Pear Avenue, Terra Bella Avenue and at Middlefield Road have signalized crosswalks with pedestrian push buttons on all legs. The Shoreline/La Avenida/US 101 Northbound Ramp intersection has crosswalks on all approaches except the south leg, while the Shoreline/US 101/SR 85 Southbound Ramp intersection has crosswalks on only the east and west legs.

Pedestrian traffic is moderate within the study area. During the AM peak hour, the highest pedestrian volume occurred at the intersection of Moffett Boulevard and Middlefield Road where 66 pedestrians crossed the intersection. Within the immediate vicinity of the project site, there were 49 pedestrians crossing the intersection of Shoreline Boulevard and Terra Bella Avenue. During the PM peak hour, the highest pedestrian volume occurred at the intersection of N. Shoreline Boulevard and Pear Avenue where 66 pedestrians crossed the intersection. Within the immediate vicinity of the project site, there were 16 pedestrians crossing the intersection of Shoreline Boulevard and Terra Bella Avenue. The pedestrian counts are included in Appendix A.

Existing Lane Configurations and Traffic Volumes

The existing lane configurations at the study intersections were obtained from field observations (see Figure 5).

Existing traffic volumes were obtained from new manual peak-hour turning-movement counts conducted on September 25, 2018. The existing traffic volumes at the study intersection are shown on Figure 6. All the intersection counts were conducted while nearby colleges were in session. The traffic count data are included in Appendix A. The volumes for all study scenario are included in Appendix B.

Existing Intersection Levels of Service

The results of the intersection level of service analysis and field observations show that most of the study intersections currently are operating at an acceptable LOS D or better (see Table 2). The following two study intersections currently operate at unacceptable level of service during one or both peak hours of traffic:

- N. Shoreline Boulevard and Pear Avenue (AM peak hour)
- N. Shoreline Boulevard and US 101 NB Off-Ramp/La Avenida (AM and PM peak hours)

The intersection levels of service calculation sheets are included in Appendix C.

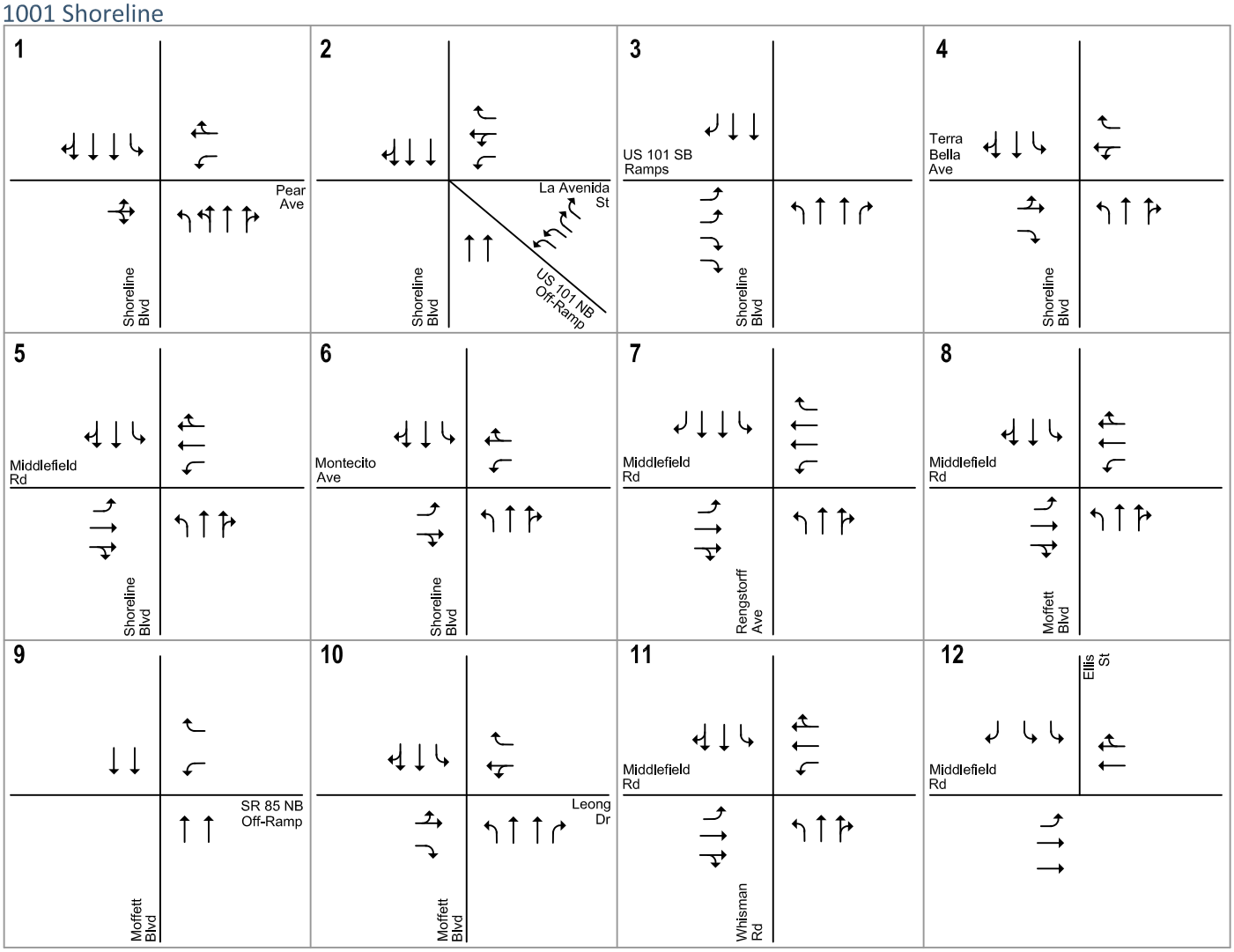
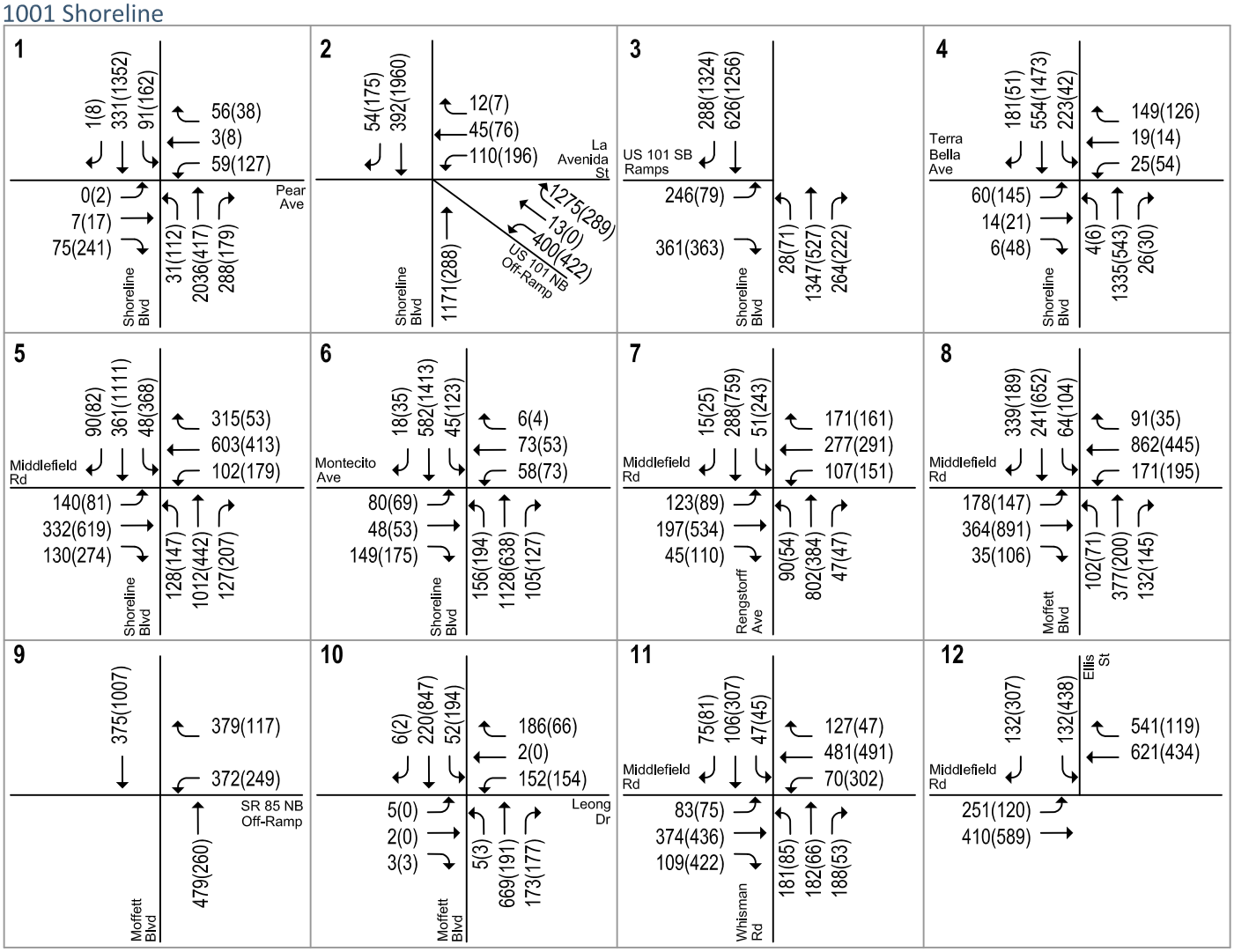


Figure 5
Existing Lane Configurations

NORTH
Not to Scale



LEGEND

XX(XX) = AM(PM) Peak-Hour Traffic Volumes

Figure 6
Existing Traffic Volumes

HEXAGON

NORTH
Not to Scale

Table 2
Existing Condition Intersection Level of Service Summary

ID #	Intersection	Peak Hour	Count Date	Avg. Delay (sec/veh)	LOS
1	Shoreline Boulevard and Pear Avenue [1]	AM	09/25/18	**80+**	**F**
		PM	09/25/18	35.6	D+
2	Shoreline Boulevard and US101 NB Off-Ramp/La Avenida [1]	AM	09/25/18	**80+**	**F**
		PM	09/25/18	**80+**	**F**
3	Shoreline Boulevard and US101/SR 85 SB Ramps [2]	AM	09/25/18	17.7	B
		PM	09/25/18	17.9	B
4	Shoreline Boulevard and Terra Bella Avenue [2]	AM	09/25/18	20.8	C+
		PM	09/25/18	17.6	B
5	Shoreline Boulevard and Middlefield Road [2]	AM	09/25/18	44.7	D
		PM	09/25/18	50.9	D
6	Shoreline Boulevard and Montecito Avenue	AM	09/25/18	22.5	C+
		PM	09/25/18	28.5	C
7	Rengstorff Avenue and Middlefield Road	AM	09/25/18	31.0	C
		PM	09/25/18	35.3	D+
8	Moffett Boulevard and Middlefield Road	AM	09/25/18	35.7	D+
		PM	09/25/18	38.8	D+
9	Moffett Boulevard and SR 85 NB Ramps	AM	09/25/18	7.7	A
		PM	09/25/18	9.0	A
10	Moffett Boulevard and Leong Drive	AM	09/25/18	22.8	C+
		PM	09/25/18	19.2	B-
11	Whisman Road and Middlefield Road	AM	09/25/18	31.7	C
		PM	09/25/18	35.2	D+
12	Ellis Street and Middlefield Road	AM	09/25/18	18.5	B-
		PM	09/25/18	21.5	C+

Notes:
Bold indicates a substandard level of service.
[1] The calculated LOS does not reflect the unmet vehicle demand that cannot get through the intersection during the peak hour. Field observations indicate that the intersection operates at LOS F with 80+ seconds of average delay during one or both peak hours.
[2] The calculated LOS is based on the overall average traffic delay for all movements. While the intersection currently operates at an acceptable level overall, the northbound through movements during the AM peak hour are affected by queue spillback from downstream intersections. However, observations show that generally the queues clear during each cycle and do not significantly affect the operation of the intersection overall.

Existing Freeway Levels of Service

Existing traffic volumes and level of service on the study freeway segments were obtained from the *2016 Santa Clara County CMP Annual Monitoring Report*, which contains the most recent data collected for freeway segments located in Santa Clara County. The CMP data shows that the following mixed-flow and HOV freeway segments currently operate at an unacceptable LOS F during at least one peak hour of traffic (see Table 3).

Mixed-Flow Freeway Segments

- US 101 northbound from Moffett Boulevard to SR 85 (AM and PM peak hours)

- US 101 northbound from SR85 to N. Shoreline Boulevard (AM and PM peak hours)
- US 101 northbound from N. Shoreline Boulevard to Rengstorff Avenue (AM and PM peak hours)
- US 101 southbound from Rengstorff Avenue to N Shoreline Boulevard (PM peak hour)
- US 101 southbound from N. Shoreline Boulevard to SR85 (PM peak hour)
- US 101 southbound from SR85 to Moffett Boulevard (PM peak hour)

HOV Freeway Segments

- US 101 northbound from Moffett Boulevard to SR 85 (AM peak hour)
- US 101 southbound from SR 85 to Moffett Boulevard (PM peak hour)

Table 3
Existing Freeway Segment Level of Service

				Mixed-Flow Lane					HOV Lane				
Freeway	Segment	Direction	Peak Hour	Avg. Speed[1]	# of Lanes[1]	Volume[1]	Density	LOS	Avg. Speed[1]	# of Lanes[1]	Volume[1]	Density[1]	LOS[1]
US 101	Moffett Blvd to SR 85	NB	AM	15	3	4,370	**97**	**F**	28	1	1,880	**67**	**F**
		NB	PM	16	3	4,470	**93**	**F**	70	1	2,520	36	D
US 101	SR 85 to N. Shoreline Blvd	NB	AM	24	4	7,200	**75**	**F**	63	1	2,150	34	D
		NB	PM	27	4	7,350	**68**	**F**	70	1	2,380	34	D
US 101	N. Shoreline Blvd to Rengstorff Ave	NB	AM	26	3	5,460	**70**	**F**	63	2	4,290	34	D
		NB	PM	11	3	3,700	**112**	**F**	70	2	2,520	18	B
US 101	Rengstorff Ave to N. Shoreline Blvd	SB	AM	58	3	6,620	38	D	66	2	2,910	22	C
		SB	PM	29	3	5,750	**66**	**F**	70	2	3,500	25	C
US 101	N. Shoreline Blvd to SR 85	SB	AM	58	3	6,620	38	D	59	1	2,190	37	D
		SB	PM	27	3	5,510	**68**	**F**	50	1	2,550	51	E
US 101	SR 85 to Moffett Blvd	SB	AM	65	3	6,050	31	D	67	1	1,140	17	B
		SB	PM	15	3	4,280	**95**	**F**	20	1	1,680	**84**	**F**

Notes
Bold indicates a substandard level of service.
[1] Source: *Santa Clara Valley Transportation Authority Congestion Management Program Monitoring Study , 2016.*

Observed Existing Traffic Conditions

Traffic conditions were observed in the field in order to identify existing operational deficiencies and to confirm the accuracy of calculated intersection levels of service. The purpose of this effort was (1) to identify any existing traffic problems that may not be directly related to level of service, and (2) to identify any locations where the level of service analysis does not accurately reflect existing traffic conditions.

N. Shoreline Boulevard and Pear Avenue

During the AM peak hour, northbound through traffic is extremely heavy and queues extend to and beyond the US 101 northbound off-ramp impeding northbound through traffic on Shoreline Boulevard and right-turn traffic from the US 101 northbound off-ramp. Observations in the field indicate that this intersection operates at LOS F during the AM peak hour due to the lengthy delays and unmet demand on the northbound approach.

During the PM peak hour, heavy traffic was observed on southbound Shoreline Boulevard. The right-most lane of the three southbound through lanes carries traffic to both northbound and southbound US 101 and southbound SR 85. Vehicles in this lane regularly back up to Plymouth Street. The westbound

left turn from Pear Avenue and the eastbound right turn to southbound Shoreline Boulevard are able to clear the intersection by turning into the two left-most through lanes.

N. Shoreline Boulevard and US101 NB Off-Ramp/La Avenida Street

During the AM peak hour, long queues were observed on the US 101 northbound off-ramp. Northbound traffic at the downstream intersection of Shoreline Blvd/Pear Avenue spillbacks to La Avenida Street and impedes the flow of northbound through traffic on Shoreline Boulevard and right-turn traffic from the US 101 northbound off-ramp. Due to this congestion, it takes multiple green cycles for these movements to clear the intersection. Queues on northbound Shoreline Boulevard extend to the overpass and occasionally extend to the upstream intersection at Shoreline Boulevard/US 101/SR 85 southbound ramps.

During the PM peak hour, a lane imbalance was observed in the southbound through lanes in favor of the far-right lane due to the high volume of traffic turning right onto the US 101/SR 85 southbound loop on-ramp. This lane imbalances causes longer queues and slower travel speeds in the right lane (compared to the adjacent lanes). Traffic turning left from the US101 northbound off-ramp and from La Avenida Street is able to clear within one cycle.

Observations in the field indicate that the intersection of N. Shoreline Boulevard and US 101 northbound off-ramp operates at LOS F during both the AM and PM peak hours due to the lengthy delays and persistent queue spillback in the peak travel direction.

N. Shoreline Boulevard and US 101/SR 85 Southbound Ramps

During the AM peak hour, northbound through queues occasionally extend to Terra Bella Avenue. Generally, the queues are able clear with each cycle and the intersection operates at acceptable levels.

During the PM peak hour, southbound traffic is heavy and occasionally vehicles need two cycles to clear the intersection. At the end of every green phase for southbound Shoreline Boulevard, the southbound queue extends halfway to La Avenida Street. However, vehicles from La Avenida Street and the US 101 northbound off-ramp constantly replenish the southbound queue. Overall, the intersection operates at acceptable levels as the southbound right-turn movement is not controlled by the traffic signal and the traffic volume for movements that conflict with the peak southbound direction is quite light.

N. Shoreline Boulevard and Terra Bella Avenue

During the AM peak hour, the intersection generally operates well without significant operational issues. Occasionally northbound queues spill back from downstream intersections and temporarily impede northbound through traffic and westbound right-turn traffic.

During the PM peak hour, the southbound through queues occasionally extend to the upstream intersection at the US 101 southbound off-ramp and need two signal cycles to get through the intersection. The eastbound approach experiences a somewhat lengthy queue of 10-12 vehicles, however the queue clears each cycle.

N. Shoreline Boulevard and Middlefield Road

During the AM peak hour, long queues were observed in the northbound through lanes, however the queue clears with each cycle. The northbound left-turn queue extends out of the dedicated turn pocket into the two-way left-turn lane. Northbound left-turn traffic generally clears within one cycle, however occasionally, some vehicles must wait through two cycles to clear the intersection.

During the PM peak hour, the southbound through traffic consistently extends to and beyond Terra Bella Avenue. Generally, the queue clears with each signal cycle. The southbound left-turn traffic consistently overflows the turn pocket and vehicles wait two to three cycles to clear the intersection. The westbound left-turn queue occasionally spills out of the turn pocket into the through lane, and vehicles need two cycles to clear the intersection.

Rengstorff Avenue and Middlefield Road

During the AM peak hour, the northbound through queue extends beyond the upstream unsignalized cross streets at San Ramon Avenue and Junction Avenue, however the queue clears with each cycle.

During the PM peak hour, the southbound left-turn queue spills out of the turn pocket, however most vehicles clear in a single cycle.

Moffett Boulevard and Middlefield Road

This intersection operates without any significant operational issues during the AM peak hour.

During the PM peak hour, the southbound left-turn queue spills out of the turn pocket. Some southbound left-turn vehicles need two cycles to clear the intersection.

Whisman Road and Middlefield Road

No operational issues were observed at this intersection during either peak hour.

Ellis Street and Middlefield Road

During the AM peak hour, the eastbound left-turn queue on Middlefield Road occasionally spills out of the turn pocket and into the adjacent through lane temporarily blocking westbound vehicles from turning left into the driveway at 487 E. Middlefield Road. Generally, the queue clears with each cycle.

The intersection operates acceptably without any operational issues during the PM peak hour.

3. Background Conditions

This chapter describes the background traffic conditions, which are defined as conditions just prior to completion of the proposed project. Traffic volumes for background conditions comprise volumes from existing traffic counts plus traffic generated by approved projects in the vicinity of the site. This chapter describes the planned roadway network, the procedure used to determine background traffic volumes, and the resulting traffic conditions.

Background Roadway Network

The roadway network under background conditions is assumed to include the Shoreline Boulevard bus lane improvement project. The project would include a reversible transit-only lane on N. Shoreline Boulevard that extends northward from Middlefield Road to Pear Avenue. The single lane would operate northbound on weekday mornings and southbound in the afternoon. On N. Shoreline Boulevard at the intersections with Middlefield Road and Pear Avenue, dedicated transit signals are proposed to facilitate bus transitions in and out of the transit lane. On N. Shoreline Boulevard between Middlefield Road and Terra Bella Avenue, the transit lane would occupy the existing center left-turn lane. All vehicles currently using the center turn lane would perform a U-turn at either the Middlefield Road or Terra Bella Avenue intersections. The left-turn lane that provides access to the southbound SR 85 on-ramp from northbound Shoreline Boulevard would be removed to provide space for the bus lane. Traffic bound for southbound SR 85 is expected to divert to the SR 85/Moffett Boulevard interchange. The Shoreline improvement project will result in the following changes to study intersections:

- N. Shoreline Boulevard and Pear Avenue: The traffic signal would be modified to include an additional transit signal phase in the morning to facilitate the northbound buses getting out of the transit lane. The transit phase would increase the total intersection lost time and the cycle length in the morning.
- N. Shoreline Boulevard and US 101 Southbound Off-Ramp: The northbound left-turn lane onto the southbound SR 85 on-ramp and the associated signal phase would be removed.
- N. Shoreline Boulevard and Terra Bella Avenue: The signal phasing for the eastbound and westbound approaches is expected to be modified from permitted to split phase. Split phase operation would increase the total intersection lost time and the cycle length.
- N. Shoreline Boulevard and Middlefield Road: The traffic signal would be modified to include an additional transit signal phase in the afternoon to facilitate the southbound buses getting out of the transit lane. The transit phase would increase the total intersection lost time and the cycle length in the afternoon. A second left-turn lane would be added to the eastbound and westbound approaches by reducing the width of the existing landscaped medians.

Background Traffic Volume

Background traffic volumes for the study intersections (see Figure 7) were estimated by adding to the existing traffic volumes (1) the trips generated by nearby approved projects that have not been constructed or occupied and (2) the reassigned traffic resulting from the Shoreline Boulevard bus lane improvement project.

Lists of approved projects were obtained from the City of Mountain View. Hexagon considered both the location and size of the approved projects in order to eliminate those that were too far away or too small to affect traffic conditions of the study intersections. The approved projects considered for the study are listed in Appendix D. Vehicle trips from the approved projects were obtained from the project's TIA or environmental document (initial study or EIR), if available. For projects without a traffic study, trip estimates were developed using rates published in the ITE *Trip Generation Manual, 10th Edition*. The estimated trips were assigned to the study intersections according to distributions identified in the development traffic studies, if available, or knowledge of the study area.

The Shoreline Boulevard bus lane improvement project identifies the removal of the northbound left-turn lane at the intersection of N. Shoreline Boulevard and the on-ramp to southbound US 101/SR 85. The closure of this lane would require all vehicles bound for SR 85 to use Middlefield Road to access the Moffett Boulevard/SR 85 interchange. Therefore, all existing vehicles that are utilizing the left-turn lane were rerouted to the Moffett interchange.

The proposed center transit lane would occupy the existing center turn lane on N. Shoreline Boulevard between Middlefield Road and Terra Bella Avenue. All vehicles currently using the center turn lane would perform a U-turn at either the Middlefield Road or Terra Bella Avenue intersections. An additional 50 vehicles were assumed to perform U-turns at both intersections during both the AM and PM peak periods. The additional U-turn volume was estimated based on the type and size of land uses and parking lots that have access to this segment of N. Shoreline Boulevard.

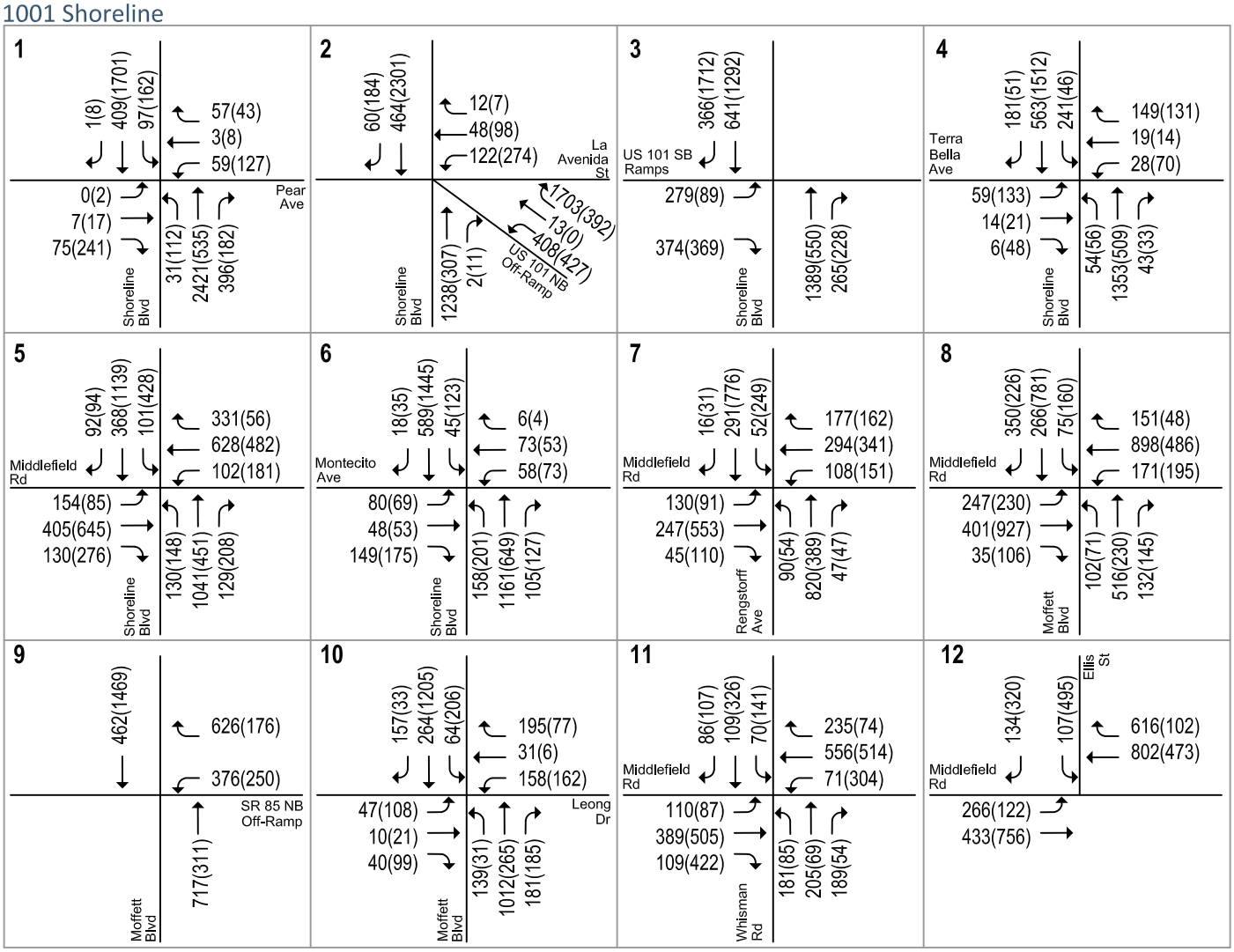
The approved trips and traffic volumes for all components of traffic are tabulated in Appendix B.

Background Intersection Levels of Service

The results of the intersection level of service analysis under background conditions are summarized in Table 4. Most of the study intersections would operate at acceptable levels of service. The intersection of N. Shoreline Boulevard and Pear Avenue would continue to operate at level of service F during the AM peak hour. The intersection of N. Shoreline Boulevard and the US 101 northbound off-ramp/La Avenida would continue to operate at an unacceptable level during the AM and PM peak hours.

It should be noted that, at some intersections, the average delay is shown to be decreased with the addition of traffic associated with approved projects. This occurs because the intersection delay is a weighted average of all intersection movements. When traffic is added to movements with delays lower than the average intersection delay, the average delay for the entire intersection can decrease.

The intersection levels of service calculation sheets are included in Appendix C.



LEGEND

XX(XX) = AM(PM) Peak-Hour Traffic Volumes

Figure 7
Background Traffic Volumes

HEXAGON

NORTH
Not to Scale

Table 4
Background Condition Intersection Level of Service Summary

ID #	Intersection	Peak Hour	Existing Avg Delay	Existing LOS	Background Avg Delay	Background LOS
1	Shoreline Boulevard and Pear Avenue[1]	AM	**80+**	**F**	**80+**	**F**
		PM	35.6	D+	35.6	D+
2	Shoreline Boulevard and US101 NB Off-Ramp/La Avenida[1]	AM	**80+**	**F**	**80+**	**F**
		PM	**80+**	**F**	**80+**	**F**
3	Shoreline Boulevard and US101/SR 85 SB Ramps[2]	AM	17.7	B	18.5	B-
		PM	17.9	B	16.0	B
4	Shoreline Boulevard and Terra Bella Avenue[2]	AM	20.8	C+	27.9	C
		PM	17.6	B	27.3	C
5	Shoreline Boulevard and Middlefield Road[2]	AM	44.7	D	45.3	D
		PM	50.9	D	52.3	D-
6	Shoreline Boulevard and Montecito Avenue	AM	22.5	C+	22.3	C+
		PM	28.5	C	28.7	C
7	Rengstorff Avenue and Middlefield Road	AM	31.0	C	31.5	C
		PM	35.3	D+	35.4	D+
8	Moffett Boulevard and Middlefield Road	AM	35.7	D+	38.5	D+
		PM	38.8	D+	41.4	D
9	Moffett Boulevard and SR 85 NB Ramps	AM	7.7	A	9.3	A
		PM	9.0	A	8.7	A
10	Moffett Boulevard and Leong Drive	AM	22.8	C+	20.9	C+
		PM	19.2	B-	28.4	C
11	Whisman Road and Middlefield Road	AM	31.7	C	31.4	C
		PM	35.2	D+	36.5	D+
12	Ellis Street and Middlefield Road	AM	18.5	B-	18.7	B-
		PM	21.5	C+	21.5	C+

Notes:

Bold indicates a substandard level of service.

[1] The calculated LOS does not reflect the unmet vehicle demand that cannot get through the intersection during the peak hour. Field observations indicate that the intersection operates at LOS F with 80+ seconds of average delay during one or both peak hours.

[2] The calculated LOS is based on the overall average traffic delay for all movements. While the intersection currently operates at an acceptable level overall, the northbound through movements during the AM peak hour are affected by queue spillback from downstream intersections. However, observations show that generally the queues clear during each cycle and do not significantly affect the operation of the intersection overall.

4. Project Conditions

This chapter describes the roadway traffic operations under background plus project conditions and existing plus project conditions, the method by which project traffic is estimated, and any impacts caused by the project. Existing plus project traffic conditions could potentially occur if the project were to be occupied prior to the other approved projects in the area. However, it is unlikely that this traffic condition would occur, since some of the other approved projects expected to add traffic to the study area would likely be built and occupied during the time this project is going through the development review process. Therefore, the Environmental Impact Report (EIR) impact conclusions are based on a comparison of background plus project conditions to background conditions per the methodology established by the City and the VTA.

Transportation Network under Existing Plus Project Conditions

The transportation network and intersection lane configurations under existing plus project conditions is assumed to be the same as that described under existing conditions.

Transportation Network under Background Plus Project Conditions

The transportation network and intersection lane configurations under background plus project conditions is assumed to be the same as that described under background conditions.

Project Trip Estimates

The magnitude of traffic produced by a new development and the locations where that traffic would appear are estimated using a three-step process: 1) trip generation, 2) trip distribution, and 3) trip assignment. In determining project trip generation, the magnitude of traffic entering and exiting the site is estimated for the AM and PM peak hours. As part of the project trip distribution, an estimate is made of the directions to and from which the project trips would travel. In the project trip assignment, the project trips are assigned to specific streets and intersections. These procedures are described below.

Trip Generation

Through empirical research, data have been collected that quantify the amount of traffic produced by common land uses. Thus, for the most common land uses there are standard trip generation rates that can be applied to help predict the future traffic increases that would result from a new development. The magnitude of traffic added to the roadway system by a development is estimated by multiplying the applicable trip generation rates by the size of the development. The trip generation rates published in the Institute of Transportation Engineers' (ITE) *Trip Generation Manual, 10th Edition (*2017) for

Multifamily Family (Mid-Rise) (Land Use Code 221) were used to estimate the trips generated by the residential component for this study. Mid-rise multifamily housing is defined to include residential developments with between three and ten stories. The retail tenant is unknown at this time. For the purpose of this study, the proposed retail component was assumed to be a coffee shop (Land Use Code 936). This is a conservative assumption since a coffee shop would generate more trips than other retail uses that might occupy the space. Based on the ITE rates, the proposed project would generate 413 gross new AM peak-hour trips and 242 gross new PM peak-hour trips.

Trip Reductions

The gross project trip estimates listed above were reduced to account for the mixed-use development and for retail pass-by trips. In addition, the project will implement a Transportation Demand Management Plan with a combination of services, incentives, facilities, and actions that reduce single–occupant vehicle (SOV) trips to help relieve traffic congestion, parking demand, and air pollution problems. The TDM Plan has not yet been finalized so the potential trip reduction achieved by TDM is uncertain. Thus, the traffic analysis does not assume any trip reductions based on TDM. This is a conservative worst-case assumption that may overstate the number of vehicle trips generated by the project.

Mixed-Use Development

Including the Phase I development that is already built and occupied, the project site will incorporate a mix of the following three uses: office, residential, and retail. Mixed-use developments have been shown to generate fewer vehicle trips than a single-use stand-alone development due to the internalization of trips between complementary land uses. For example, some office workers at the project site may live at the proposed new residences on the same site and thus walk rather than drive to work. In addition, site residents may patronize the retail use proposed on the same site thereby reducing the external vehicle trips generated by both the retail and residential uses. As prescribed by the Santa Clara VTA *Transportation Impact Analysis Guidelines (2014)*, a three percent trip reduction was applied for the proposed mixed-use development with housing and employment. The guidelines specify that the mixed-use trip reduction is to be calculated based on the land use that produces the fewest new trips. Based on the *1001 North Shoreline Boulevard Office Development TIA* prepared by Hexagon Transportation Consultants, Inc. in June 2015, the office portion of the project area is estimated to generate 209 AM peak-hour trips and 203 PM peak-hour trips. Therefore, since the residential portion of the project would generate fewer new trips, the three percent reduction was applied to the gross new residential peak-hour trips. To be conservative, no reductions were applied to the trips generated by the existing office space.

The Santa Clara VTA *Transportation Impact Analysis Guidelines (2014)* also allow a 15 percent trip reduction for a mixed-use development that combine retail uses with a housing component. Therefore, a 15 percent trip reduction was applied to the smaller trip generator (residential). The same number of trips with reversed trip directions were then subtracted from the larger trip generator (retail) to account for both ends of the internal trip.

Pass-By Trips

In accordance with the Santa Clara VTA *Transportation Impact Analysis Guidelines (2014)*, a retail pass-by trip reduction of 30 percent was applied to the net peak-hour trip generation estimates for the proposed retail space. Pass-by-trips are trips that would already be on the adjacent roadways (and so are already counted in the background traffic) but would turn into the site while passing by. For example, some of the customers at the proposed retail space may stop in on their way to work. Justification for applying the pass-by-trip reduction is founded on the observation that such retail traffic is not actually generated by the retail development but is already part of the ambient traffic levels.

After applying the mixed-use and pass-by trip reductions, the proposed project is expected to generate 291 net new vehicle trips (123 inbound and 167 outbound) during the AM peak hour and 178 net new vehicle trips (103 inbound and 75 outbound) during the PM peak hour. The project trip generation summary is shown in Table 5.

Table 5
Project Trip Generation Summary

Land Use	Size	Daily Rate[1]	Daily Trips	AM Peak Hour Rate[1]	AM In	AM Out	AM Total	PM Peak Hour Rate[1]	PM In	PM Out	PM Total
Proposed											
Apartments[2]	203 d.u.	5.44	1,104	0.36	19	54	73	0.44	54	35	89
Condominiums[2]	100 d.u.	5.44	544	0.36	9	27	36	0.44	27	17	44
Retail[3]	3,000 s.f.		2,062	101.14	155	149	303	36.31	54	54	109
Gross New Project Trips			***3,710***		***183***	***230***	***413***		***136***	***106***	***242***
Trip Reduction											
Mixed-Use Reduction (Housing & Employment)[4]			(49)		(1)	(2)	(3)		(3)	(2)	(4)
Housing/Retail Mixed-Use Reduction - Housing[5]			(247)		(4)	(12)	(16)		(8)	(8)	(16)
Housing/Retail Mixed-Use Reduction - Retail[5]			(247)		(12)	(4)	(16)		(8)	(8)	(16)
Pass-by Reduction[6]			(569)		(43)	(43)	(86)		(14)	(14)	(28)
Total Reduction			***(1,113)***		***(60)***	***(62)***	***(122)***		***(33)***	***(32)***	***(64)***
Net New Project Trips			**2,597**		**123**	**168**	**291**		**103**	**75**	**178**

Notes
d.u. = dwelling units
[1] Rate expressed in trips per dwelling unit for residential uses and per 1,000 s.f for retail uses.
[2] Trip generations rate for the proposed Apartments and Condominiums are based on the ITE's *Trip Generation Manual, 10th Edition* rates for Land Use Code 221 "Multifamily Housing (Mid-Rise)."
[3] Trip generation rates for the proposed retail space are based on the ITE's *Trip Generation Manual, 10th Edition* rates for Land Use Code 936 "Coffee/Donut Shop without Drive-Through Window"
[4] As prescribed by the *VTA Transportation Impact Analysis Guidelines, 2014* , a maximum trip reduction of 3% for mixed-use development with housing and employment was applied to the housing trip generation.
[5] As prescribed by the *VTA Transportation Impact Analysis Guidelines, 2014* , a 15% trip reduction was applied to the smaller trip generator. The same number of trips were then subtracted from the larger trip generator to account for both trip ends.
[6] As prescribed by the VTA Transportation Impact Analysis Guidelines, 2014, a 30% pass-by trip reduction was applied to the retail component of the project. The reduction was applied to the net retail trips after applying the mixed-use reduction.

Trip Distribution and Assignment

The trip distribution patterns for the proposed uses were estimated based on existing travel patterns on the surrounding roadway system and the location of complimentary land uses. The trip distribution pattern for the residential component of the project is shown on Figure 8 and the trip distribution pattern for the retail component is shown on Figure 9.

The project trips were assigned to the roadway network based on the direction of approach and departure, roadway network connections, freeway access points, and locations of project driveways. The project trip assignment at the intersection of N. Shoreline Boulevard and Terra Bella Avenue includes the effect of retail pass-by trips that would be subtracted from the through traffic on N. Shoreline Boulevard and added to the turning movements to and from the east leg of Terra Bella Avenue. The net project trip assignment with the existing transportation network is shown on Figure 10. Note that the project trip assignment differs under background conditions due to the elimination of access to southbound SR 85 from N. Shoreline Boulevard. Instead, project trips bound for southbound SR 85 were assigned to use the southbound SR 85 on-ramp at Moffett Boulevard.

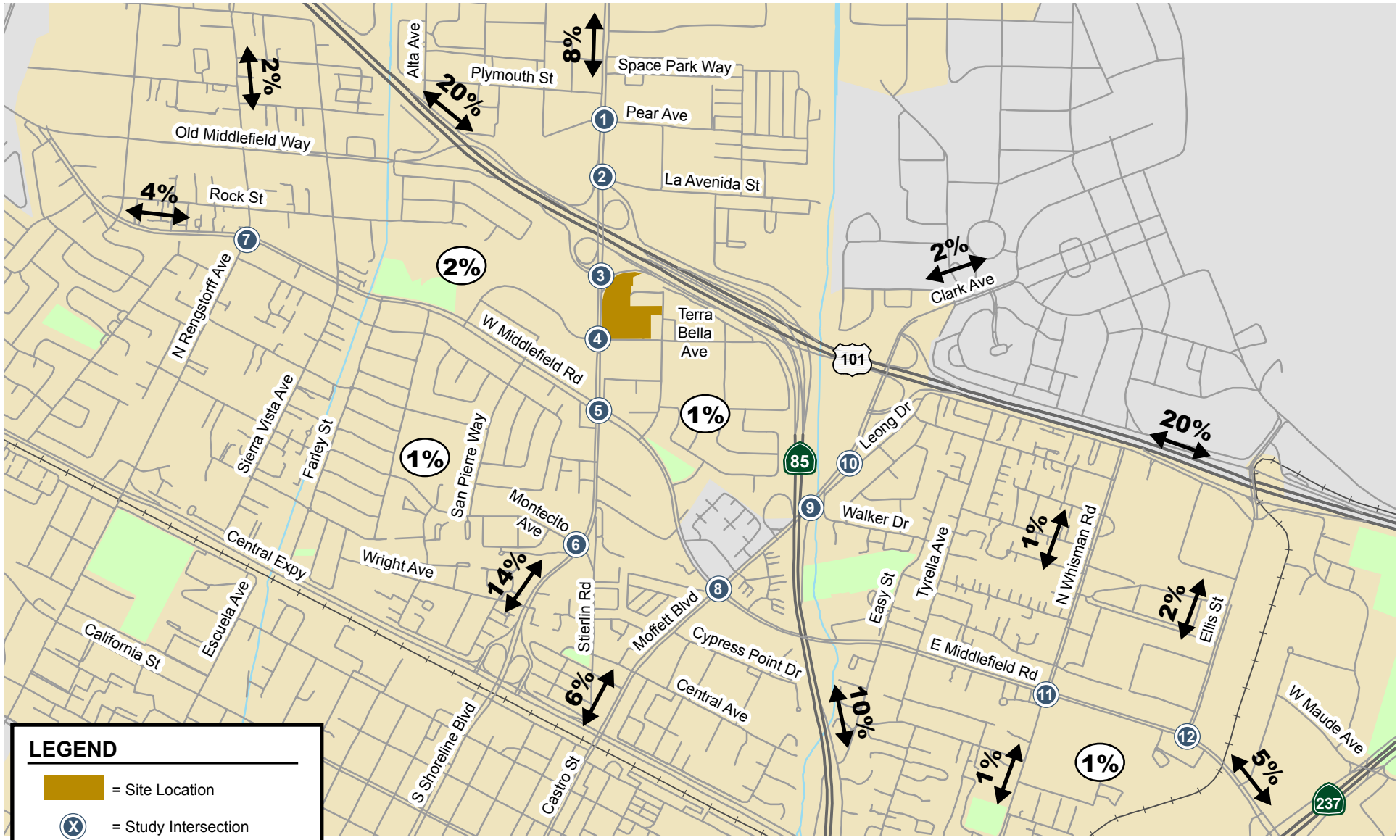


Figure 8
Project Trip Distribution Pattern - Residential

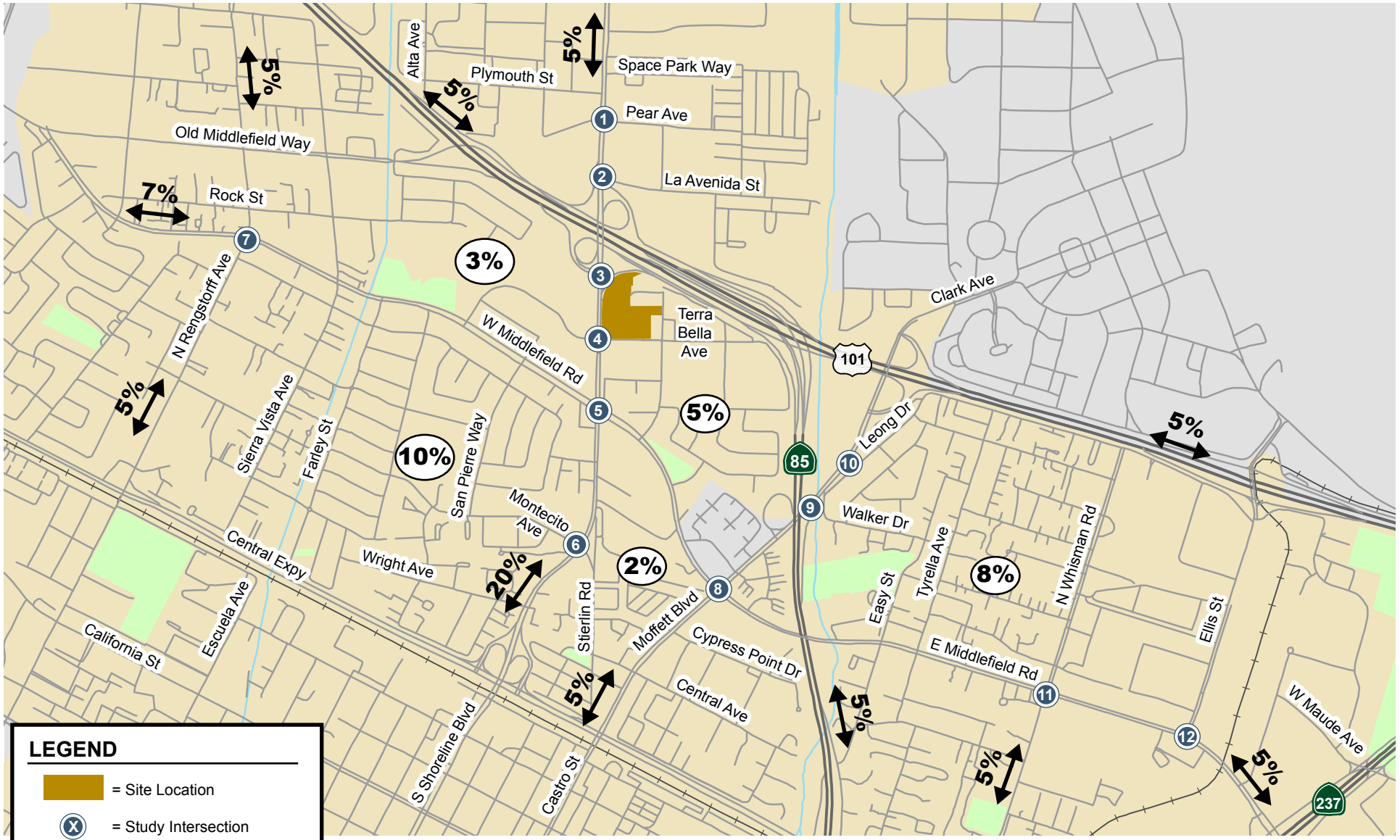
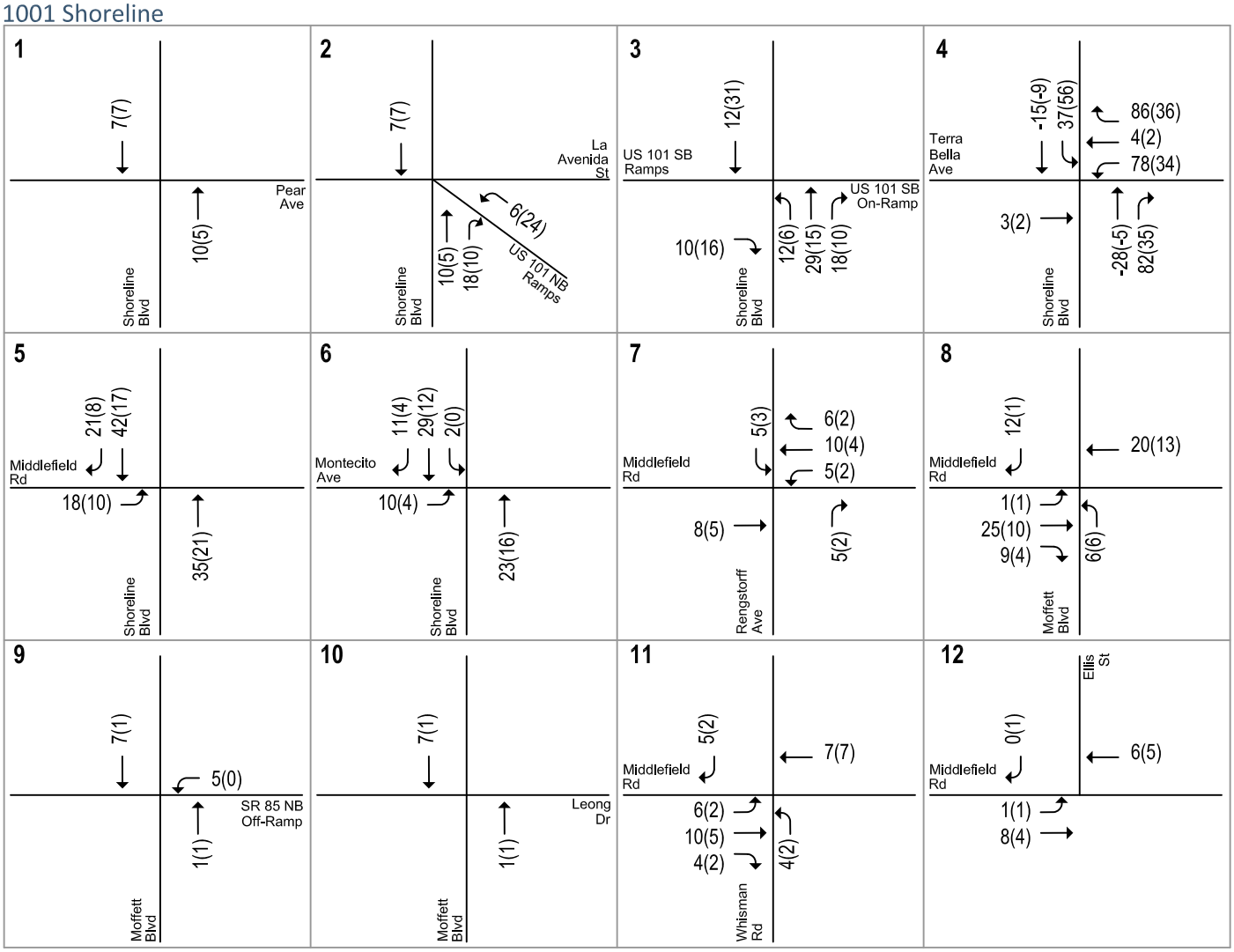


Figure 9
Project Trip Distribution Pattern - Retail

NORTH
Not to Scale



LEGEND

XX(XX) = AM(PM) Peak-Hour Trips

Figure 10
Project Trip Assignment

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NORTH
Not to Scale

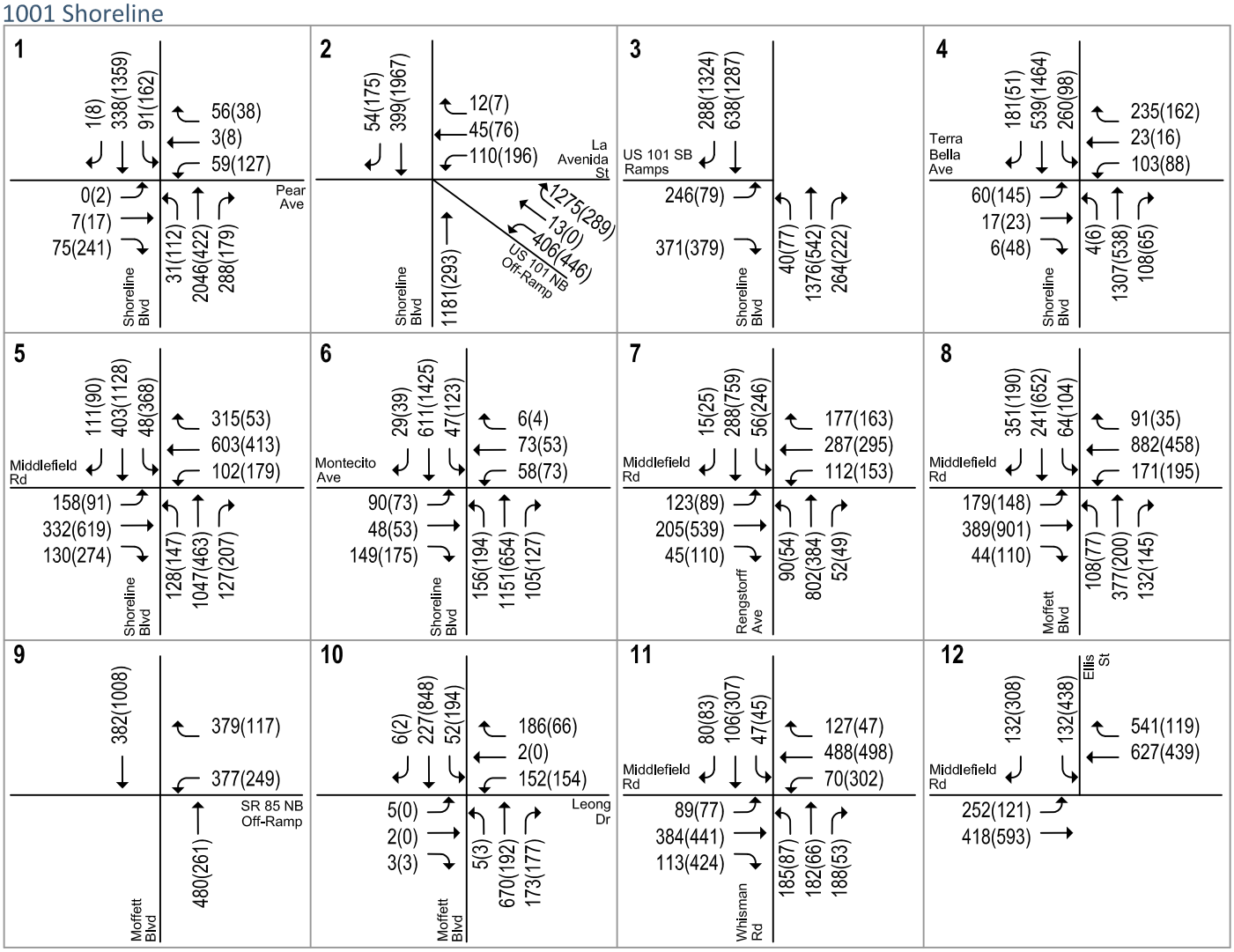
Project Condition Intersection Traffic Volumes

Project impacts were evaluated relative to both existing traffic volumes and background traffic volumes. For the existing plus project scenario, the total new trips generated by the project were added to the existing traffic volumes to derive the existing plus project traffic volumes (see Figure 11). For the background plus project scenario, the project trips generated by the project were added to the background traffic volumes to derive the background plus project traffic volumes (see Figure 12). Peak-hour intersection volumes for the study intersections are tabulated in Appendix B.

Existing Plus Project Intersection Level of Service Analysis

The results of the intersection level of service analysis under existing plus project conditions are summarized in Table 6. The results show that most of the study intersections would operate at acceptable levels during both the AM and PM peak hours. Under existing plus project conditions, the N. Shoreline Boulevard/Pear Avenue intersection would continue to operate at LOS F during the AM peak hour and the N. Shoreline Boulevard/US 101 northbound off-ramp intersection would continue to operate at LOS F during both the AM and PM peak hours. However, the project would not result in a significant project impact at either of these two intersections because the project traffic would not cause an increase in critical-movement delay of four or more seconds or an increase in critical v/c of one percent (0.01) or more. The intersection level of service calculation sheets are included in Appendix C.

At the intersection of N. Shoreline Boulevard and Montecito Avenue, the average delay under existing plus project conditions is shown to be less than under existing conditions during the AM peak hour. The average delay can be less under project conditions because the intersection delay is a weighted average of all intersection movements. The addition of project traffic to movements with delays lower than the average intersection delay can reduce the average delay for the entire intersection.



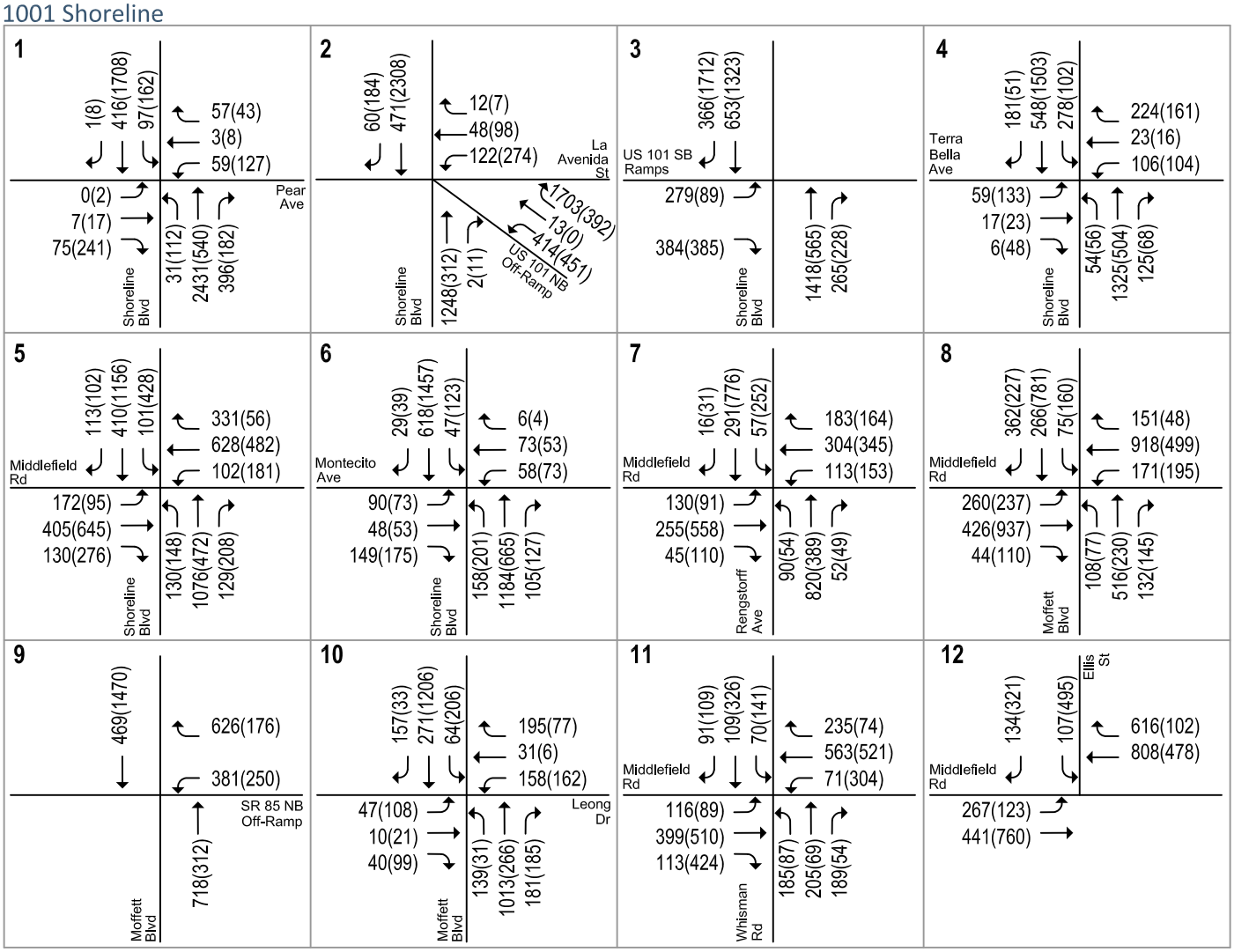
LEGEND

XX(XX) = AM(PM) Peak-Hour Traffic Volumes

Figure 11
Existing Plus Project Traffic Volumes

HEXAGON

NORTH
Not to Scale



LEGEND

XX(XX) = AM(PM) Peak-Hour Traffic Volumes

Figure 12
Background Plus Project Traffic Volumes

Table 6
Existing Plus Project Intersection Level of Service Summary

ID #	Intersection	Peak Hour	Count Date	Existing Avg. Delay	Existing LOS	Existing + Project Avg. Delay	Existing + Project LOS	Incr. in Crit. Delay	Crit. v/c
1	Shoreline Boulevard and Pear Avenue[1]	AM	09/25/18	**80+**	**F**	**80+**	**F**	0.2	0.003
		PM	09/25/18	35.6	D+	35.6	D+	0.0	0.002
2	Shoreline Boulevard and US101 NB Off-Ramp/La Avenida[1]	AM	09/25/18	**80+**	**F**	**80+**	**F**	0.2	0.003
		PM	09/25/18	**80+**	**F**	**80+**	**F**	0.6	0.009
3	Shoreline Boulevard and US101/SR 85 SB Ramps[2]	AM	09/25/18	17.7	B	17.9	B	-0.1	0.008
		PM	09/25/18	17.9	B	18.0	B-	5.4	0.067
4	Shoreline Boulevard and Terra Bella Avenue[2]	AM	09/25/18	20.8	C+	25.9	C	5.8	0.069
		PM	09/25/18	17.6	B	19.3	B-	0.2	-0.001
5	Shoreline Boulevard and Middlefield Road[2]	AM	09/25/18	44.7	D	45.5	D	1.3	0.021
		PM	09/25/18	50.9	D	51.3	D-	0.4	0.007
6	Shoreline Boulevard and Montecito Avenue	AM	09/25/18	22.5	C+	22.4	C+	0.0	0.008
		PM	09/25/18	28.5	C	28.5	C	0.0	0.005
7	Rengstorff Avenue and Middlefield Road	AM	09/25/18	31.0	C	31.3	C	0.3	0.009
		PM	09/25/18	35.3	D+	35.4	D+	0.1	0.005
8	Moffett Boulevard and Middlefield Road	AM	09/25/18	35.7	D+	36.0	D+	0.7	0.018
		PM	09/25/18	38.8	D+	39.1	D	0.4	0.008
9	Moffett Boulevard and SR 85 NB Ramps	AM	09/25/18	7.7	A	7.7	A	0.0	0.004
		PM	09/25/18	9.0	A	9.0	A	0.0	0.000
10	Moffett Boulevard and Leong Drive	AM	09/25/18	22.8	C+	22.8	C+	0.1	0.000
		PM	09/25/18	19.2	B-	19.2	B-	0.0	0.000
11	Whisman Road and Middlefield Road	AM	09/25/18	31.7	C	31.8	C	0.4	0.01
		PM	09/25/18	35.2	D+	35.2	D+	0.2	0.008
12	Ellis Street and Middlefield Road	AM	09/25/18	18.5	B-	18.5	B-	0.0	0.002
		PM	09/25/18	21.5	C+	21.5	C+	0.0	0.003

Notes:

Bold indicates a substandard level of service.

[1] The calculated LOS does not reflect the unmet vehicle demand that cannot get through the intersection during the peak hour. Field observations indicate that the intersection operates at LOS F with 80+ seconds of average delay during one or both peak hours.

[2] The calculated LOS is based on the overall average traffic delay for all movements. While the intersection currently operates at an acceptable level overall, the northbound through movements during the AM peak hour are affected by queue spillback from downstream intersections. However, observations show that generally the queues clear during each cycle and do not significantly affect the operation of the intersection overall.

Background Plus Project Intersection Level of Service Analysis

The results of the intersection level of service analysis under background plus project conditions are summarized in Table 7. The results show that most of the study intersections would operate at acceptable levels during both the AM and PM peak hours under background plus project conditions. The N. Shoreline Boulevard/Pear Avenue intersection would continue to operate at LOS F during the AM peak hour and the N. Shoreline Boulevard/US 101 northbound off-ramp intersection would continue to operate at LOS F during both AM and PM peak hours. However, the project would not result in a significant project impact at either of these two intersections because the project traffic would not cause an increase in critical-movement delay of four or more seconds or an increase in critical v/c of one percent (0.01) or more.

The intersection levels of service calculation sheets are included in Appendix C.

Table 7
Background Plus Project Intersection Level of Service Summary

ID #	Intersection	Peak Hour	Background Avg. Delay	Background LOS	Background + Project Avg. Delay	Background + Project LOS	Incr. In Crit. Delay	Incr. In Crit. v/c
1	Shoreline Boulevard and Pear Avenue[1]	AM	**80+**	**F**	**80+**	**F**	0.2	0.003
		PM	35.6	D+	35.7	D+	0.0	0.002
2	Shoreline Boulevard and US101 NB Off-Ramp/La Avenida[1]	AM	**80+**	**F**	**80+**	**F**	0.8	0.003
		PM	**80+**	**F**	**80+**	**F**	0.6	0.004
3	Shoreline Boulevard and US101/SR 85 SB Ramps[2]	AM	18.5	B-	18.5	B-	0.2	0.011
		PM	16.0	B	16.3	B	0.4	0.014
4	Shoreline Boulevard and Terra Bella Avenue[2]	AM	27.9	C	34.2	C-	7.9	0.090
		PM	27.3	C	30.8	C	3.1	0.020
5	Shoreline Boulevard and Middlefield Road[2]	AM	45.3	D	45.8	D	1.0	0.016
		PM	52.3	D-	52.8	D-	-7.0	0.002
6	Shoreline Boulevard and Montecito Avenue	AM	22.3	C+	22.2	C+	0.0	0.008
		PM	28.7	C	28.6	C	0.0	0.005
7	Rengstorff Avenue and Middlefield Road	AM	31.5	C	31.8	C	0.3	0.009
		PM	35.4	D+	35.5	D+	0.1	0.005
8	Moffett Boulevard and Middlefield Road	AM	38.5	D+	39.2	D	1.6	0.026
		PM	41.4	D	41.9	D	0.5	0.008
9	Moffett Boulevard and SR 85 NB Ramps	AM	9.3	A	9.3	A	0.0	0.000
		PM	8.7	A	8.7	A	0.0	0.000
10	Moffett Boulevard and Leong Drive	AM	20.9	C+	20.9	C+	0.0	0.000
		PM	28.4	C	28.5	C	0.1	0.000
11	Whisman Road and Middlefield Road	AM	31.4	C	31.5	C	0.4	0.010
		PM	36.5	D+	36.5	D+	0.1	0.004
12	Ellis Street and Middlefield Road	AM	18.7	B-	18.7	B-	0.0	0.002
		PM	21.5	C+	21.5	C+	0.0	0.003

Notes

Bold indicates a substandard level of service.

[1] The calculated LOS does not reflect the unmet vehicle demand that cannot get through the intersection during the peak hour. Field observations indicate that the intersection operates at LOS F with 80+ seconds of average delay during one or both peak hours.

[2] The calculated LOS is based on the overall average traffic delay for all movements. While the intersection currently operates at an acceptable level overall, the northbound through movements during the AM peak hour are affected by queue spillback from downstream intersections. However, observations show that generally the queues clear during each cycle and do not significantly affect the operation of the intersection overall.

At the intersection of N. Shoreline Boulevard and Montecito Avenue, the average delay under background plus project conditions is shown to be less than under background conditions during the AM and PM peak hours. The average delay can be less under project conditions because the intersection delay is a weighted average of all intersection movements. The addition of project traffic to movements with delays lower than the average intersection delay can reduce the average delay for the entire intersection.

Freeway Segment Evaluation

Traffic volumes on the study freeway segments under project conditions were estimated by adding project trips to the existing volumes obtained from the 2016 CMP Annual Monitoring Report. The results of the freeway segment impact analysis (see Table 8) show that all the study freeway segments currently operating at LOS F would continue operating at an unacceptable LOS F. The project would contribute trips equivalent to less than one percent of the capacity on each of the studied freeway

segments under every scenario. Thus, the project would have an insignificant impact on nearby freeway segments under existing plus project and all future scenarios including background plus project and cumulative conditions.

Table 8
Freeway Level of Service Analysis

					Existing Plus Project												Project Trips				
					Mixed-Flow Lane						HOV Lane							Mixed-Flow Lane		HOV Lane	
#	Freeway	Segment	Direction	Peak Hour	Avg. Speed[1]	# of Lanes[1]	Capacity (vph)	Volume	Density	LOS	Avg. Speed[1]	# of Lanes[1]	Capacity (vph)	Volume	Density	LOS	Total Volume	Volume	% of Capacity	Volume	% of Capacity
1	US 101	Moffett Blvd to SR 85	NB	AM	15	3	6,900	4,372	**97**	**F**	28	1	1,650	1,881	**67**	**F**	3	2	0.03	1	0.06
			NB	PM	16	3	6,900	4,483	**93**	**F**	70	1	1,650	2,523	36	D	16	13	0.19	3	0.18
2	US 101	SR 85 to N. Shoreline Blvd	NB	AM	24	4	9,200	7,200	**75**	**F**	63	1	1,650	2,150	34	D	0	0	0.00	0	0.00
			NB	PM	27	4	9,200	7,350	**68**	**F**	70	1	1,650	2,380	34	D	0	0	0.00	0	0.00
3	US 101	N. Shoreline Blvd to Rengstorff Ave	NB	AM	26	3	6,900	5,474	**70**	**F**	63	2	3,300	4,294	34	D	18	14	0.20	4	0.12
			NB	PM	11	3	6,900	3,708	**112**	**F**	70	2	3,300	2,522	18	B	10	8	0.12	2	0.06
4	US 101	Rengstorff Ave to N. Shoreline Blvd	SB	AM	58	3	6,900	6,628	38	D	66	2	3,300	2,912	22	C	10	8	0.12	2	0.06
			SB	PM	29	3	6,900	5,763	**66**	**F**	70	2	3,300	3,503	25	C	16	13	0.19	3	0.09
5	US 101	N. Shoreline Blvd to SR 85	SB	AM	58	3	6,900	6,620	38	D	59	1	1,650	2,190	37	D	0	0	0.00	0	0.00
			SB	PM	27	3	6,900	5,510	**68**	**F**	50	1	1,650	2,550	51	E	0	0	0.00	0	0.00
6	US 101	SR 85 to Moffett Blvd	SB	AM	65	3	6,900	6,065	31	D	67	1	1,650	1,143	17	B	18	15	0.22	3	0.18
			SB	PM	15	3	6,900	4,288	**95**	**F**	20	1	1,650	1,682	**84**	**F**	10	8	0.12	2	0.12

[1] Source: Santa Clara Valley Transportation Authority Congestion Management Program Monitoring Study, 2016.
Bold indicates unacceptable LOS.
Boxed indicates significant impact.

5. Cumulative Conditions

This chapter describes the roadway traffic operations under cumulative no project conditions and cumulative plus project conditions. Cumulative traffic volumes reflect traffic generated by the approved development projects and traffic growth contributed by the pending developments in the study area. Cumulative plus project conditions were evaluated relative to cumulative no project conditions in order to determine potential project impacts.

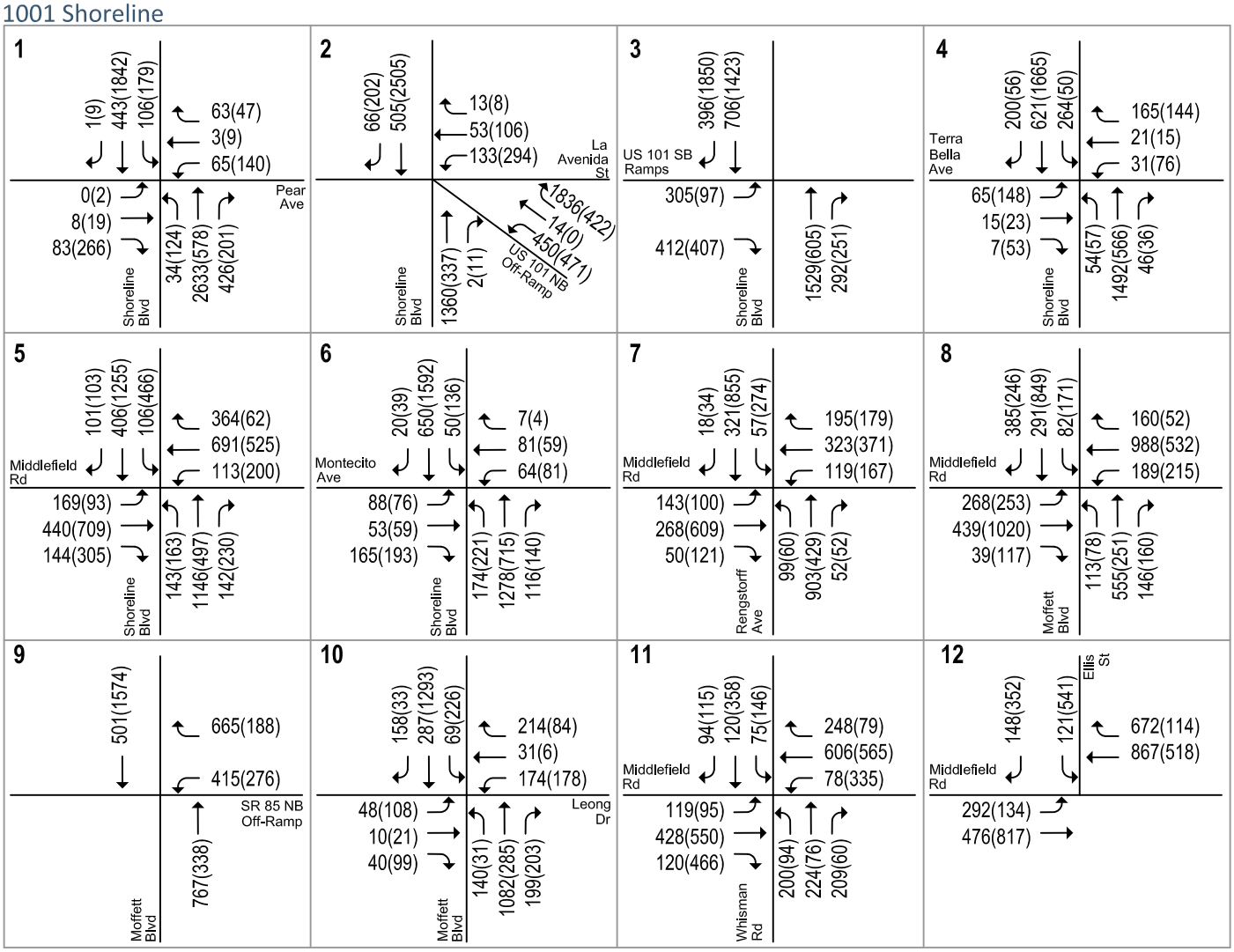
Cumulative Transportation Network

The roadway network under cumulative conditions would be the same as the background roadway network as described in Chapter 3.

Cumulative Traffic Volumes

The cumulative no project traffic volumes were estimated by first applying a two percent growth factor per year for five years to existing 2018 traffic volumes. (With compounding, this yields a factor of 1.104.) This growth assumption was furnished by the City of Mountain View Planning Department. The trips generated by the approved projects in the vicinity were then added to obtain cumulative no project traffic volumes (see Figure 13).

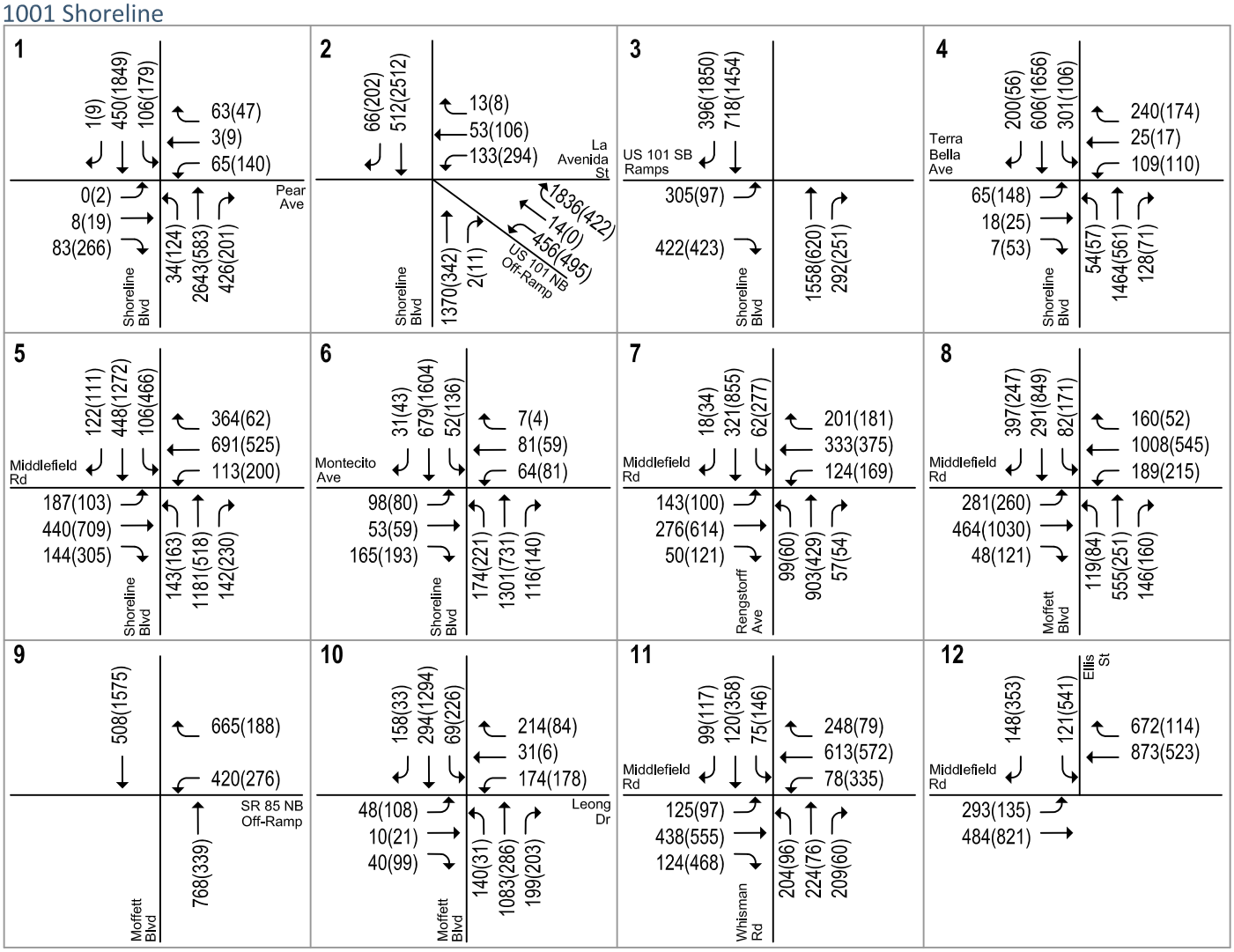
The net project trip estimates in Chapter 4 were then added to the cumulative no project traffic volumes to yield cumulative plus project traffic volumes (see Figure 14). Traffic volumes for all components of traffic are tabulated in Appendix B.



LEGEND

XX(XX) = AM(PM) Peak-Hour Traffic Volumes

Figure 13
Cumulative No Project Traffic Volumes



LEGEND

XX(XX) = AM(PM) Peak-Hour Traffic Volumes

Figure 14
Cumulative Plus Project Traffic Volumes

Intersection Levels of Service Under Cumulative Conditions

Cumulative plus project conditions were evaluated relative to cumulative no-project conditions in order to determine potential project impacts. The results of the intersection level of service analysis (see Table 9) show that the following study intersections would operate at unacceptable levels of service (LOS E or F) under both cumulative no project conditions and cumulative with project conditions.

- N. Shoreline Boulevard/Pear Avenue (AM peak hour)
- N. Shoreline Boulevard/US 101 Northbound Off-Ramp (AM and PM peak hours)
- N. Shoreline Boulevard/W. Middlefield Road (PM peak hour)

However, the added project traffic would not result in a significant project impact at these intersections because the project traffic would not cause an increase in critical-movement delay of four or more seconds or an increase in critical v/c of one percent (0.01) or more.

Table 9
Cumulative Conditions Intersection Levels of Service Results

ID #	Intersection	Peak Hour	Cumulative No Project Avg Delay	Cumulative No Project LOS	Cumulative with Project Avg Delay	Cumulative with Project LOS	Crit. Delay	Incr. In Crit. v/c
1	Shoreline Boulevard and Pear Avenue[1]	AM	**80+**	**F**	**80+**	**F**	0.2	0.003
		PM	37.0	D+	37.0	D+	0.0	0.002
2	Shoreline Boulevard and US101 NB Off-Ramp/La Avenida[1]	AM	**80+**	**F**	**80+**	**F**	1.1	0.003
		PM	**80+**	**F**	**80+**	**F**	**1.0**	**0.007**
3	Shoreline Boulevard and US101/SR 85 SB Ramps[2]	AM	19.0	B-	19.1	B-	0.2	0.011
		PM	16.6	B	16.8	B	0.4	0.014
4	Shoreline Boulevard and Terra Bella Avenue[2]	AM	29.1	C	35.8	D+	8.5	0.090
		PM	28.5	C	32.0	C-	3.1	0.020
5	Shoreline Boulevard and Middlefield Road[2]	AM	47.7	D	48.5	D	1.3	0.016
		PM	**59.0**	**E+**	**59.7**	**E+**	0.9	0.006
6	Shoreline Boulevard and Montecitio Avenue	AM	23.0	C	23.0	C	0.0	0.008
		PM	30.6	C	30.6	C	0.0	0.005
7	Rengstorff Avenue and Middlefield Road	AM	32.2	C-	32.5	C-	0.3	0.009
		PM	36.3	D+	36.4	D+	0.2	0.005
8	Moffett Boulevard and Middlefield Road	AM	41.3	D	42.6	D	2.6	0.026
		PM	44.9	D	45.5	D	0.8	0.008
9	Moffett Boulevard and SR 85 NB Ramps	AM	9.8	A	9.8	A	0.0	0.000
		PM	9.3	A	9.3	A	0.0	0.000
10	Moffett Boulevard and Leong Drive	AM	22.3	C+	22.3	C+	0.0	0.000
		PM	37.0	D+	37.1	D+	0.2	0.000
11	Whisman Road and Middlefield Road	AM	31.8	C	32.0	C	0.4	0.010
		PM	37.9	D+	38.0	D+	0.2	0.004
12	Ellis Street and Middlefield Road	AM	20.2	C+	20.2	C+	0.1	0.002
		PM	21.9	C+	22.0	C+	0.0	0.003

Notes:

Bold indicates a substandard level of service.

[1] The calculated LOS does not reflect the unmet vehicle demand that cannot get through the intersection during the peak hour. Field observations indicate that the intersection operates at LOS F with 80+ seconds of average delay during one or both peak hours.

[2] The calculated LOS is based on the overall average traffic delay for all movements. While the intersection currently operates at an acceptable level overall, the northbound through movements during the AM peak hour are affected by queue spillback from downstream intersections. However, observations show that generally the queues clear during each cycle and do not significantly affect the operation of the intersection overall.

6. Other Transportation Issues

This chapter presents an analysis of other transportation issues associated with the project, including:

- Effects on pedestrian, bicycle, and transit facilities
- Vehicle miles travelled
- Neighborhood traffic conditions
- Freeway on-ramp traffic operations
- Queuing analysis at selected intersections
- Site access and circulation

Unlike the level of service impact methodology, which is adopted by the City Council, the analyses in this chapter are based on professional judgment in accordance with the standards and methods employed by the traffic engineering community. Although operational issues are not considered CEQA impacts, they do describe traffic conditions that are relevant to describing the project environment.

Effects on Pedestrians, Bicycles and Transit Facilities

Overall, the project is well served by the existing pedestrian and bicycle facilities. Sidewalks are found along virtually all previously-described local roadways in the study area. The project would provide sidewalks along the entire project frontage and enhance the pedestrian and bicycle network within the project site.

Pedestrian and Bicycle Facilities

Pedestrian facilities in the study area consist of sidewalks along all the surrounding streets. The study intersections on N. Shoreline Boulevard at Pear Avenue, Terra Bella Avenue and at Middlefield Road have signalized crosswalks with pedestrian push buttons on all legs. The Shoreline/La Avenida/US 101 Northbound Ramp intersection has crosswalks on all approaches except the south leg, while the Shoreline/US 101/SR 85 Southbound Ramp intersection has crosswalks on only the east and west legs. Overall, the existing sidewalks and pedestrian paths have good connectivity and would provide pedestrians with safe routes to surrounding land uses including Downtown Mountain View, the Mountain View Transit Center, and nearby schools and bus stops. The project would enhance pedestrian circulation with a public pedestrian/bicycle pathway through the site connecting Shoreline Boulevard and Linda Vista Avenue.

The project site is adjacent to bike lanes along N. Shoreline Boulevard and would provide a public pedestrian/bicycle pathway through the site connecting Shoreline Boulevard and Linda Vista Avenue.

Although not designated as a bike route, Linda Vista Avenue and Terra Bella Avenue carry low traffic volumes and are conducive to bicyclists. In addition, the project is located about one mile from the Stevens Creek Trail and about 0.8 mile from the Permanente Creek Trail. It is expected that the project would generate some bicycle trips because of its proximity to the bike lanes and complementary land uses, including the Mountain View Transit Center, and corporate campuses in the North Bayshore and Whisman areas.

Pedestrian and Bicycle Access to Schools

The project site is located within the boundary of Theuerkauf Elementary School, Crittenden Middle School, and Mountain View High School, which are about 0.8 miles southwest, 0.8 miles west, and 4.9 miles south of the project site, respectively. While Theuerkauf Elementary School and Crittenden Middle School are more than one-half mile away and not normally considered within walking distance, some students may choose to walk or bike to these schools from the project site. Mountain View High School is considered too far to walk or even bike to or from the project site. Students who choose to walk to Theuerkauf Elementary School would use N. Shoreline Boulevard, W. Middlefield Road, San Pierre Way, and San Luis Avenue. This pedestrian route has adequate sidewalks with crosswalks provided at the N. Shoreline Boulevard/W. Middlefield Road and San Pierre Way /W. Middlefield Road intersections. It is unlikely that students would bike to Theuerkauf Elementary School due to the young ages. Students who choose to walk to Crittenden Middle School would use Terra Bella Avenue, Middlefield Road, and the Permanente Creek Trail. This pedestrian route has adequate sidewalks/pedestrian pathways with a signalized crosswalk at the N. Shoreline Boulevard/Terra Bella Avenue intersection. Students that choose to bike to Crittenden Middle School could follow the same route or could utilize the bike lanes on N. Shoreline Boulevard and W. Middlefield Road.

Transit Services

The project site is served by VTA bus routes 32, 40, 120, and 185, two MVgo Shuttles (East and West Bayshore routes), the Mountain View Community Shuttle, and an ACE shuttle. The nearest transit stops are located at: N. Shoreline Boulevard and Terra Bella Avenue (500 feet from the site), N. Shoreline Boulevard and Middlefield Road (1,000 feet from the site), N. Shoreline Boulevard and La Avenida Street (1,800 feet from the site), and N. Shoreline Boulevard and Pear Avenue (0.5 miles from the site). Sidewalks are present to facilitate pedestrian movements between the project site and the nearest transit stops. However, VTA will discontinue routes 32 and 120, and extend route 40 as part of VTA's Next Network 2018-2019 Transit Service Plan. With the changes, the project would be served by VTA Routes 40 and 185. In addition, a new MVgo bus stop will be located immediately adjacent to the project site at the northeast corner of N. Shoreline Boulevard and Terra Bella Avenue.

Because of the local VTA buses serving the project site and the project's location near the Mountain View Transit Center and the North Bayshore area, it is expected that the project would generate some commuter transit trips that utilize the MVgo shuttles or VTA Routes 40 and 185 on N. Shoreline Boulevard to get to the North Bayshore area or the VTA Light Rail/Caltrain at the Mountain View Transit Center to get to other destinations. The transit center is approximately one mile from the project site and could be easily accessed by bicycle. Residents who choose to take buses to the transit center could utilize the MVgo shuttles or VTA Routes 40 or 185 on N. Shoreline Boulevard. Based on the 2012-2016 American Community Survey 5-Year Estimates for 2016, an average of approximately six percent of Mountain View residents use transit to commute to and from work. Assuming a 6 percent transit mode share, the project would generate approximately 17 new transit riders during the AM peak hour and 11 riders during the PM peak hour. This new ridership generated by the project could be accommodated by these existing and planned transit services.

To assess the project's effect on transit vehicle delay, the delay experienced by each route running through the study intersections was estimated based on the average vehicle delay that is calculated as

part of the intersection level of service analysis. Table 11 summarizes the bus travel times through the study area and the increase in transit vehicle delay with the addition of the project traffic. VTA does not have significance thresholds to determine impacts on transit vehicle delay. Therefore, this analysis is presented for information purposes only. The results show that the project would result in minimal increases in transit travel time (from 0.1 to 1.3 percent) for the bus routes in the study area. Thus, it can be concluded that the addition of project-generated traffic is so minor that the delay increases experienced by the bus routes that operate within the study area would be imperceptible.

Table 10
Transit Vehicle Delay in Study Area

			Existing			Background	Background+Project		
			Travel Time[1]		Delay[2]	Delay[2]	Delay[2]	Increase in	%Increase in
Bus Route	Direction	Peak Hour	min /	sec	(sec)	(sec)	(sec)	Delay[3] (sec)	Travel Time[3]
40 [4]	Northbound	AM	10	600	124.6	167.8	175.1	7.3	1.1%
		PM	12	720	153.1	165.9	171.5	5.6	0.8%
	Southbound	AM	10	600	182.5	185.4	185.9	0.5	0.1%
		PM	12	720	126.8	133.1	136.4	3.3	0.5%
185	Northbound	AM	15	900	261.8	313.6	323.8	10.2	1.1%
	Southbound	PM	20	1,200	224.2	237.0	241.4	4.4	0.4%
MVgo (E. Bayshore)	Northbound	AM	13	780	189.5	238.1	245.4	7.3	0.9%
		PM	11	660	190.5	207.8	213.4	5.6	0.8%
	Southbound	AM	10	600	182.5	185.4	185.9	0.5	0.1%
		PM	12	720	126.8	133.1	136.4	3.3	0.5%
MV Community Shuttle	Gray	AM	8	480	122.0	117.5	117.4	-0.1	0.0%
		PM	8	480	158.0	162.2	162.6	0.4	0.1%
	Red	AM	9	540	155.4	161.8	164.5	2.7	0.5%
		PM	9	540	180.1	196.4	196.9	0.5	0.1%
MVgo (W. Bayshore)	Northbound	AM	9	540	124.6	167.8	175.1	7.3	1.3%
		PM	10	600	153.1	165.9	171.5	5.6	0.9%
	Southbound	AM	9	540	182.5	185.4	185.9	0.5	0.1%
		PM	15	900	126.8	133.1	136.4	3.3	0.4%

Note:
1. Travel time based on the VTA's bus schedule for two timepoints closest to each end of the study area.
2. The total movement delay of all relevant study intersections added together.
3. Increase in delay/travel time over background conditions.
4. The delay and travel time for Route 40 under existing and background conditions reflect the the total movement delay of all relevant study intersections along the extended Route 40 as described as part of VTA's Next Network.

Vehicle Miles Travelled (VMT) Analysis

Pursuant of SB 743, the Governor's Office of Planning and Research (OPR) published the finalized *Updates to the CEQA Guidelines* in November 2017. The guidelines state that level of service will no longer be an environmental impact under CEQA, and that vehicle-miles-travelled (VMT) is considered the most appropriate measure of transportation impact. Cities have until July 2020 to adopt the new procedures. The City of Mountain View has not yet adopted any standards or guidelines related to VMT. Therefore, the qualitative analysis of VMT presented in this report is for information only. It is not intended to provide any indication of the transportation impacts of the project under SB 743.

Compared to other locations in the City, the project site is expected to have a lower than average VMT per resident due to its proximity to the North Bayshore employment area, its location immediately adjacent to multiple transit routes and bike lanes on N. Shoreline Boulevard, and its proximity to multiple pedestrian/bike trails and to Caltrain and light rail service at the Mountain View Transit Center. In addition, the project will implement a Transportation Demand Management Plan with a combination of services, incentives, facilities, and actions that reduce single–occupant vehicle trips to help relieve traffic congestion, parking demand, and air pollution problems. Thus, for these reasons, the project is expected to help the City reduce the citywide average VMT per capita.

Neighborhood Traffic Conditions

Mechanical tube counts were conducted over a two-day period (Wednesday and Thursday, September 26 – 27, 2018) on the following street segments:

- Terra Bella Avenue between N. Shoreline Boulevard and Linda Vista Avenue, and
- Linda Vista Avenue between Terra Bella Avenue and Moonbeam Drive.

According to the City of Mountain View's General Plan, Terra Bella Avenue is classified as an avenue, which is described as a tree-lined arterial or collector with mixed residential and commercial frontage. Linda Vista Avenue is classified as a flexible street north of Moonbeam Drive and a residential street south of Moonbeam Drive. A flexible street is a street in an area of potential transition while a residential street is generally a low volume street. The average daily traffic volumes on these roadway segments under existing conditions are shown in Table 10. The City's General Plan does not provide any standards for desired or maximum traffic volume on various street classifications. However, the City's Neighborhood Traffic Management Program (NTMP) states that local residential and collector streets with cut-through traffic equal to 25 percent or more may be eligible for the installation of traffic calming devices.

Observations indicate that these streets currently experience substantial cut through traffic, primarily during the morning commute hours when traffic diverts from Middlefield Road to northbound Linda Vista Avenue and then turns left onto westbound Terra Bella Avenue and then right onto northbound Shoreline Boulevard. Based on a review of the hourly traffic volumes by direction, it is estimated that cut through traffic comprises approximately 455 vehicles per day, which is less than 25 percent of the total daily traffic volume on Terra Bella Avenue. However, the existing cut-through traffic represents more than 25 percent of the total daily traffic volume on Linda Vista Avenue.

The proposed project is expected to add trips to both street segments (see Table 11). The greatest increase in project trips is expected to occur on Terra Bella Avenue between Shoreline Boulevard and the project driveway. Including pass-by trips diverted from N. Shoreline Boulevard, the project is expected to add approximately 2,575 vehicle trips per day to this segment of Terra Bella Avenue, which represents a 52 percent increase in the existing traffic volume on this street. The addition of project trips would increase the percentage of cut through traffic on Terra Bella Avenue from 12 to 48 percent. Note that the cut-through trips on Terra Bella Avenue include pass-by trips that are expected to divert from their existing route on N. Shoreline Boulevard to Terra Bella Avenue to access the proposed retail use(s) as an intermediate stop while en route to another destination elsewhere.

On Linda Vista Avenue, the project is estimated to add 611 vehicle trips per day, which represents a 41 percent increase in the existing traffic volume on this street. The percentage of cut-through traffic on Linda Vista Avenue is expected to increase from 31 to 51 percent as a result of the project.

According to the NTMP, traffic-calming measures may be implemented to eliminate the perceived time savings incentive to use these streets and reduce the volume of cut through traffic. Installation of traffic-calming devices is conducted following a multi-step process that includes neighborhood meetings and a

post-card survey of affected residents and property owners. Some traffic-calming measures require approval of the Council Transportation Committee and the full City Council.

The proposed project is expected to add the same number trips to both study street segments under background plus project and cumulative conditions.

Table 11
Average Daily Traffic Volumes on Neighborhood Streets

	Existing (2018)[1]			Existing + Project			
Street Segment	Total Volume	Cut Through Volume	Cut Through %	Project Trips	Total Volume	Cut Through Volume	Cut Through %
Linda Vista Avenue (between Terra Bella Avenue and Moorbeam Drive)	1,477	455	31%	611	2,088	1,066	51%
Terra Bella Avenue (between Linda Vista Avenue and N. Shoreline Boulevard)	3,712	455	12%	2,575	6,287	3,030	48%

Notes
[1] Existing traffic counts were collected in September 2018.

Freeway On-Ramp Traffic Operations

An analysis of freeway on-ramps providing access to US 101 and SR 85 from the project site was performed to identify the effect of the addition of project traffic on the vehicle queues at the metered on-ramps (see Table 12). It should be noted that the evaluation of freeway ramps is not required by the City's TIA guidelines, nor are there adopted methodologies and impact criteria for the analysis of freeway ramps. Thus, the analysis of freeway on-ramps was conducted only for existing and existing plus project conditions.

The US 101/SR 85/Shoreline Boulevard interchange provides direct access to US 101 and SR 85 from the project site. In the project vicinity, the peak direction on both US 101 and SR 85 is northbound during the AM peak commute period and southbound during the PM peak commute period. The US 101 northbound loop on-ramp from Shoreline Boulevard is not metered during the AM or PM peak commute hours. The on-ramps from Shoreline Boulevard to southbound US 101 and southbound SR 85 are metered only during the PM peak commute period. Ramp operations on the northbound US 101 on-ramp were evaluated based on the number of lanes and free-flow capacity of the loop ramp while the southbound on-ramps were evaluated based on vehicle queue lengths and metering rates observed in the field during the PM peak hour of traffic.

The on-ramp to southbound SR 85 widens from one to two lanes approaching the meter and is about 725 feet long in the one-lane section and 475 feet long in the two-lane section, which can accommodate a queue of about 67 vehicles in all. The maximum existing queue on the southbound SR 85 on-ramp is about eight vehicles per lane with a metering rate of about 9 seconds per vehicle per lane (or 800 vehicles per hour) during the PM peak period. The existing PM peak-hour traffic volume on this ramp is substantially less than the metered capacity of the ramp. Accordingly, the observed on-ramp queue is much shorter than the length of the ramp. The addition of project traffic to the on-ramp would slightly increase the ramp traffic (1%) and would not noticeably increase the queue length or wait times at the ramp.

Table 12
Freeway On-Ramp Analysis

Freeway On-Ramp	Peak Hour	Lanes	On-Ramp Storage (veh)	Existing[1] Volume[2] (veh/hr)	Existing[1] Metering Rate (sec/veh/ln)	Existing[1] On-Ramp Capacity (veh/hr)	Existing[1] Queue Length (veh)	Existing[1] Wait Time[3] (sec)	Existing Plus Project Project Trips (veh/hr)	Existing Plus Project Volume (veh/hr)	Existing Plus Project %Increase	Existing Plus Project Queue Length[4] (veh)	Existing Plus Project Wait Time[3] (sec)
from Shoreline Boulevard Eastbound													
- to southbound SR 85 [5]	PM	2	67	467	9	800	16	72	6	473	1%	16	72
- to southbound US 101 [5]	PM	2	118	1,149	6	1,200	70	210	10	1,159	1%	71	213
- to northbound US 101 [6]	AM	1	134	371	n/a	1,800	0	0	18	389	5%	0	0
	PM	1	134	320	n/a	1,800	0	0	10	330	3%	0	0

Notes:
1. Existing queue length and existing metering rate were measured during the PM peak hour in October 2017.
2. The existing on-ramp traffic volumes were based on counts conducted in October 2018.
3. Wait time was estimated based on the queue length and measured metering rate.
4. Queue lengths for existing plus project conditions were estimated based on the ratio of existing plus project volume to existing volume.
5. Ramp meter on these two ramps operates only during the PM peak hour.
6. Ramp meter is not turned on during either the AM or PM peak hours at this ramp.

The on-ramp to southbound US 101 widens from one to two lanes approaching the meter and is about 1,800 feet long in the one-lane section (queue space for 72 vehicles) and 575 feet long in the two-lane section (queue space for 23 vehicles per lane), for a total queueing capacity of about 118 vehicles. The maximum existing queue on the southbound US 101 on-ramp fully occupies the two-lane portion of the ramp and about 1/3 of the one-lane portion of the ramp (about 70 vehicles total) with a metering rate of about 6 seconds per vehicle per lane (or 1,200 vehicles per hour) during the PM peak period. The existing PM peak-hour traffic volume on this ramp is near the metered ramp capacity, however the observed maximum ramp queue length does not exceed the available ramp storage. The addition of project traffic to the on-ramp would slightly increase the ramp traffic (1%) and would increase the on-ramp queue length by only one vehicle and increase wait times by only 3 seconds. The maximum vehicle queue under existing plus project conditions is expected to be contained within the existing on-ramp storage.

The addition of project traffic to the US 101 northbound on-ramp would slightly increase the ramp volume (5% during the AM peak hour and 3% during the PM peak hour). However, the ramp volume would still be well below the ramp capacity under the existing plus project conditions. Therefore, the project would not affect traffic operations on this ramp. Based on the on-ramp traffic operations analysis, the existing on-ramp storage is adequate to serve the vehicle queues that would develop with the addition of project-generated traffic.

Intersection Vehicle Queuing

The analysis of intersection levels of service was supplemented with a vehicle queuing analysis for intersection turning movements where the project would add a substantial number of trips. This analysis provides a basis for estimating future storage requirements at the intersections. Vehicle queues were estimated using a Poisson probability distribution, described in Chapter 1. The following turn movements were selected for evaluation:

- Westbound left turn at N. Shoreline Boulevard and US 101 NB Ramps/La Avenida Street
- Northbound left-turn at N. Shoreline Boulevard and US 101/SR 85 SB Ramps
- Southbound left-turn at N. Shoreline Boulevard and Terra Bella Avenue
- Eastbound left-turn at N. Shoreline Boulevard and Middlefield Road

As mentioned previously, unlike the level of service impact methodology, which is adopted by the City Council, the intersection vehicle queuing issues are not considered CEQA impacts and only analyzed under existing and background conditions. The queuing analysis at each of the selected location is discussed further below and summarized in Table 13. Because vehicle queuing is considered an operational issue not subject to CEQA significance thresholds, the queuing analysis was conducted for existing and background conditions without and with the proposed project and not under cumulative conditions.

Shoreline Boulevard and US 101 NB Ramps/La Avenida Street

Under all scenarios, the westbound left-turn queues on the US 101 northbound off-ramp at Shoreline Boulevard are projected to be less than the available storage capacity during the AM and PM peak hours. No improvements are needed.

Table 13
Intersection Vehicle Queuing Results

	Shoreline Blvd & US101 NB Off-Ramp		Shoreline Blvd & US101/SR 85 SB Ramps [3]		Shoreline Blvd & Terra Bella Ave		Shoreline Blvd & Middlefield Rd [4]	
Movement:	WBL	WBL	NBL	NBL	SBL	SBL	EBL	EBL
Peak Hour Period:	AM	PM	AM	PM	AM	PM	AM	PM
Existing								
Cycle[1] (sec)	150	140	150	145	150	145	150	140
Volume (vphpl)	200	211	28	71	223	42	140	81
Avg. Queue (veh/ln.)	8.3	8.2	1.2	2.9	9.3	1.7	5.8	3.2
Avg. Queue[2] (ft./ln)	208	205	29	71	232	42	146	79
95th %. Queue (veh/ln.)	13	13	3	6	15	4	10	6
95th %. Queue (ft./ln)	325	325	75	150	375	100	250	150
Storage (ft./ ln.)	1800	1800	175	175	175	175	225	225
Adequate (Y/N)	Y	Y	Y	Y	**N**	Y	**N**	Y
Existing Plus Project								
Cycle[1] (sec)	150	140	150	145	150	145	150	140
Volume (vphpl)	203	223	40	77	260	98	158	91
Avg. Queue (veh/ln.)	8.5	8.7	1.7	3.1	10.8	3.9	6.6	3.5
Avg. Queue[2] (ft./ln)	211	217	42	78	271	99	165	88
95th %. Queue (veh/ln.)	13	14	4	6	17	7	11	7
95th %. Queue (ft./ln)	325	350	100	150	425	175	275	175
Storage (ft./ ln.)	1800	1800	175	175	175	175	225	225
Adequate (Y/N)	Y	Y	Y	Y	**N**	Y	**N**	Y
Background								
Cycle[1] (sec)	150	140	150	145	160	165	150	144
Volume (vphpl)	204	214	0	0	241	46	154	85
Avg. Queue (veh/ln.)	8.5	8.3	0.0	0.0	10.7	2.1	6.4	3.4
Avg. Queue[2] (ft./ln)	213	208	0	0	268	53	160	85
95th %. Queue (veh/ln.)	14	13	0	0	16	5	11	7
95th %. Queue (ft./ln)	350	325	0	0	400	125	275	175
Storage (ft./ ln.)	1800	1800	0	0	175	175	450	450
Adequate (Y/N)	Y	Y	--	--	**N**	Y	Y	Y
Background Plus Project								
Cycle[1] (sec)	150	140	150	145	160	165	150	144
Volume (vphpl)	207	226	0	0	278	102	172	95
Avg. Queue (veh/ln.)	8.6	8.8	0.0	0.0	12.4	4.7	7.2	3.8
Avg. Queue[2] (ft./ln)	216	219	0	0	309	117	179	95
95th %. Queue (veh/ln.)	14	14	0	0	18	8	12	7
95th %. Queue (ft./ln)	350	350	0	0	450	200	300	175
Storage (ft./ ln.)	1800	1800	0	0	175	175	450	450
Adequate (Y/N)	Y	Y	--	--	**N**	**N**	Y	Y

Notes:
[1] Vehicle queue calculations based on cycle length for signalized intersections.
[2] Assumes 25 feet per vehicle queued.
[3] The northbound left-turn movement will be eliminated as part of the planned Shoreline Boulevard Transportation Corridor improvements under background and backgound plus project conditions.
[4] The Shoreline Boulevard Transportation Corridor improvements include the addition of a second EB LT lane at Shoreline/Middlefield under background and background plus project conditions.

Shoreline Boulevard and US101/SR 85 SB Ramps

At this intersection, the existing northbound left-turn pocket provides 175 feet of storage, which can accommodate about seven vehicles. The estimated 95th percentile queue is less than the existing vehicle storage capacity during both AM and PM peak hours under existing conditions. The addition of project traffic would only increase the 95th percentile queue by one vehicle during the AM and would not increase the vehicle queue during the PM peak hour. Under the existing plus project scenario, the northbound left-turn queues are projected to be less than the available storage capacity during the AM and PM peak hours.

Under background conditions, the northbound left-turn lane onto the southbound SR 85 would be removed as part of the Shoreline Boulevard Transportation Corridor improvements.

Shoreline Boulevard and Terra Bella Avenue

Currently, the left turn pocket on southbound Shoreline Boulevard is only about 175 feet long, which provides enough storage for about seven vehicles. The estimated maximum vehicle queue for the southbound left-turn movement exceeds the existing vehicle storage capacity under all scenarios during the AM peak hour. During the PM peak hour, the southbound left-turn queue is less than the storage capacity at the intersection under existing and background conditions. The project is expected to increase this queue by three vehicles during the PM peak hour and would result in the queue exceeding the vehicle storage capacity. It may be possible to extend the left-turn pocket beyond the current length; however, it is not possible to accommodate the projected maximum queue length of 450 feet due to the planned bus lane that will run in the median.

The queue storage deficiency at this intersection is partly due to the existing congestion on the northbound US 101 off ramp to Shoreline Boulevard during the peak morning commute period. To avoid the lengthy queue in the right-turn lanes, some off-ramp traffic turns left onto southbound Shoreline and then makes a U-turn at Terra Bella Avenue. Counts show that 135 vehicles per hour conduct a U-turn at this location. The North Bayshore Precise Plan identifies improvements to the northbound US 101 off ramp to Shoreline Boulevard that would alleviate the existing congestion at the off ramp eliminating the perceived travel time savings gained by making a U-turn at Terra Bella Avenue. These planned improvements are not expected to be completed within the next five years, thus they were not assumed as part of the background or cumulative transportation network. Without the U-turn traffic, the 95th percentile queue at Terra Bella would be 275 feet. Thus, after the planned gateway transportation improvements are completed, the need for additional turn pocket storage would wane as queues would overflow the existing turn pocket storage in about one of every three signal cycles during the AM peak hour and only about one out of ten signal cycles during the PM peak hour.

Shoreline Boulevard and Middlefield Road

The queuing analysis indicates that the maximum queue for the eastbound left-turn movement on Middlefield Road currently exceeds the existing vehicle storage capacity during the AM peak hour. The project would not cause a noticeable increase in queue length for this movement. As shown in Table 14, the project would only increase the eastbound left-turn queue by one vehicle during the AM peak hour.

With the Shoreline bus lane project, a second left-turn lane would be added to the eastbound and westbound approaches under background conditions. The improvement is expected to reduce the demand for green time for the eastbound and westbound left-turn movements and yield more green time for the northbound and southbound movements. The queuing analysis shows that with the improvement, the maximum eastbound left-turn vehicle queues would be contained within the turn pocket under background and project conditions.

Vehicular Site Access and Circulation

The evaluation of site access and circulation is based on the project site plan prepared by Studio T Square dated July 17, 2018. On-site circulation was reviewed in accordance with generally accepted traffic engineering standards.

Pedestrian and Bicycle Access and Circulation

Pedestrian access to the project site is provided via sidewalks on N. Shoreline Boulevard, Terra Bella Avenue and Linda Vista Avenue. Pedestrian walkways would be provided through and around the site that provide pedestrian access from the surrounding streets to elevators and stairways at each residential building, the leasing office, and retail spaces within the site. Pedestrian access to parking garage level two in both Block A and Block B would be provided by elevators and stairways. Pedestrian pathways within the parking structures are adequate and comply with ADA guidelines. Ramps used by vehicles to travel between different levels would have slopes up to 20 percent. It is recommended that proper signage be installed at these ramps to prohibit use by pedestrians or bicycles.

Bicycle access to the project site is via N. Shoreline Boulevard. In addition, although not designated as a bike route, Terra Bella Avenue and Linda Vista Avenue are conducive to bicycle travel. The existing bike lanes on N. Shoreline Boulevard connect cyclists from the project site to the surrounding areas. The project would provide a public pedestrian/bicycle path through the middle of the site to connect N. Shoreline Boulevard with Linda Vista Avenue. The project would provide secure bicycle storage for residents on the ground level of the parking garage in Block B and on both the ground level and the upper level of the parking garage in Block A. For ease of access and to avoid residents riding down the garage ramp or bringing bicycles into elevators, it is recommended the project applicant locate all bicycle storage at the ground level.

Vehicle Site Access

Vehicular access to the project site would be provided via one driveway on Terra Bella Avenue and one driveway on Linda Vista Avenue. The Terra Bella Avenue driveway would be 30 feet wide, measured at the throat, and would allow full access. The Linda Vista Avenue driveway would be 26 feet wide, measured at the throat, and would allow full access. The proposed driveway widths are acceptable.

On-site parking for the proposed project would be provided via surface parking and parking garages. There would be 90-degree parking spaces located along the two main project drive aisles. The Terra Bell Avenue driveway would lead to the north-south 30-foot wide drive aisle (On-Site Road # 2) and the Linda Vista driveway would lead to the east-west 26-foot wide drive aisle (On-Site Road #1). The proposed aisle widths would be adequate for two-way traffic and to allow maneuvering in and out of the adjacent parking spaces. The project would include three separate parking garages, one each for the office, apartments, and condominiums. The apartment garage would have two gated entry/exit points located along On-Site Road #2 (north-south). The office garage would include a single entry/exit point close to the Linda Vista Avenue driveway, and the condominium garage would include a single entry/exit point close to the Terra Bella Avenue driveway. All the garages would have two-way drive aisles, 90-degree parking spaces, and a minimum drive aisle width of 24 feet, which would be adequate for two-way traffic and to allow maneuvering in and out of the parking spaces.

Including pass-by trips diverted from N. Shoreline Boulevard, the total volume estimated to use the Terra Bella driveway upon the completion of both Phase I and II is 412 vehicles (235 inbound and 177 outbound) during the AM peak hour, which would be about 4 vehicles entering and 3 vehicles exiting every minute. During the PM peak hour, the driveway on Terra Bella Avenue is estimated to serve 282 vehicles (113 inbound and 169 outbound). The Linda Vista driveway would serve a total of 174 trips

(115 inbound and 59 outbound) during the AM peak hour and a total of 127 trips (39 inbound and 88 outbound) during the PM peak hour.

Of the two project driveways, the driveway on Terra Bella Avenue is expected to serve the most traffic. Likewise, the background (non-project) traffic is greater on the segment of Terra Bella Avenue adjacent the project site than on the segment of Linda Vista Avenue adjacent the project site. Thus, an analysis of traffic operations was conducted for the Terra Bella Avenue driveway during the AM peak hour. The AM peak hour reflects the worst time period since traffic volumes at the Terra Bella Avenue driveway are expected to be lower during the PM peak hour. The most heavily used movements to and from the Terra Bella Avenue driveway are expected to be the eastbound left turn into the project site and the southbound right-turn out of the project site. The conflicting volume on the westbound through movement is expected to be approximately 205 vehicles during the AM peak hour. Vehicles turning left into the project site from eastbound Terra Bella Avenue would turn from the through lane as there is no left-turn pocket or median. While left-turns into the site may occasionally cause delays for eastbound through traffic while left-turn vehicles wait for a gap in oncoming traffic, the eastbound Terra Bella Avenue approach is estimated to have an average delay of only 8.1 seconds per vehicle and result in a 95% queue length of only three vehicles during the AM peak hour. Given this intersection and time period represents the worst case and traffic volumes during other time periods and at the Linda Vista Avenue driveway would be less, the proposed project driveways are expected to operate acceptably.

The project driveways should be free and clear of any obstructions to optimize sight distance, thereby ensuring that exiting vehicles can see pedestrians on the sidewalk and other vehicles traveling on Terra Bella and Linda Vista Avenues. Any landscaping, parking, and signage should be located in such a way to ensure an unobstructed view for drivers entering and exiting the site.

Vehicular On-Site Circulation

Residential Parking Garages

All parking spaces in the residential parking garages are oriented at a 90-degree angle from the drive aisles. The width of all drive aisles meets the City of Mountain View minimum requirement (24 feet) for 90-degree parking spaces on double-loaded drive aisles with two-way traffic. The parking space dimensions (8.5 feet wide by 18 feet long) meet City standards. The site plan shows good circulation through the two-level apartment garage without any dead-end aisles. The condominium parking garage includes one dead-end drive aisle on the ground level and two dead-end drive aisles on the upper level. The last two parking stalls in the dead-end aisles (one on each side of the drive aisle) are zero to three feet from the garage wall. It would be difficult for drivers who park in those last stalls to back out of the stall, complete a three-point turn, and then drive forward out of the drive aisle. Parking garage designs should include space at the end of a dead-end aisle for drivers to back into in order to more easily exit the parking stall. We recommend that such “back-up pockets” be provided at the end of each dead-end drive aisle to facilitate backing out of the last parking stalls in those rows.

The proposed garage ramps would be 24 feet wide, which meets the minimum width for a two-way drive aisle set forth by the City of Mountain View Zoning Code (36.32.80). The ramps in the proposed residential garages are shown to have a maximum slope of 20% with 10% transitions on each side. These dimensions are acceptable. Commonly cited parking publications recommend grades of up to 16% on ramps where no parking is permitted, but grades of up to 20% are cited as acceptable when ramps are covered (i.e. protected from weather) and not used for pedestrian walkways. It should be noted that most ramp users will be residents, and thus, will quickly become accustomed to steeper grades.

A loading zone is shown at the southwest corner of the apartment building. At the end of the onsite Road #1, there is sufficient space on site to allow trucks and emergency vehicles to conduct a three-point turn in order to turn around on site. Thus, trucks will not have to back into or out of the site

driveway. A trash staging area would be located within the parking lot. Trash trucks would enter via the Terra Bella Avenue driveway and exit via the Linda Vista Avenue driveway. Delivery trucks would enter the site via Terra Bella Avenue, turn left at the first cross aisle, and then back into the loading space.

Office Parking Garage

The office parking garage features park on ramps with 90-degree parking throughout the site and 24-foot-wide drive aisles, which are adequate for two-way circulation. The site plan shows good circulation through garage levels one through five. There is a dead-end aisle on the sixth level of the parking garage. Although dead-end aisles are generally undesirable, extra space has been provided to allow a vehicle to turn around, which is acceptable.

1001 North Shoreline Boulevard Residential Development – TIA Report

Technical Appendices

Appendix A

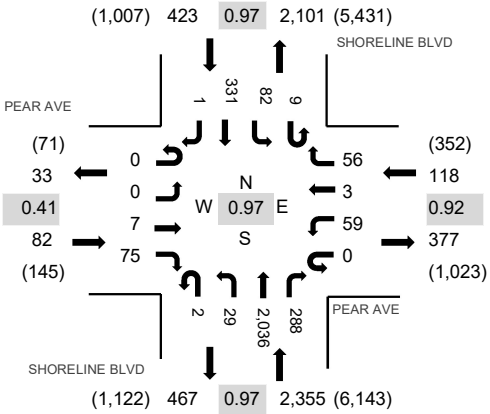
Traffic Counts

All Traffic Data Services Inc.

(303) 216-2439
www.alltrafficdata.net

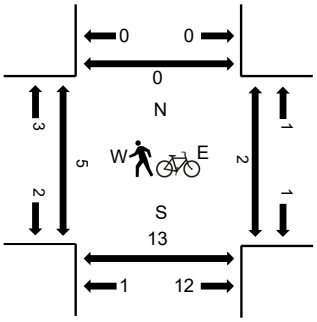
Location: 1 SHORELINE BLVD & PEAR AVE AM
Date and Start Time: Tuesday, September 25, 2018
Peak Hour: 09:00 AM - 10:00 AM
Peak 15-Minutes: 09:00 AM - 09:15 AM

Peak Hour - All Vehicles



Note: Total study counts contained in parentheses.

Peak Hour - Pedestrians/Bicycles on Crosswalk



Traffic Counts

Interval Start Time	PEAR AVE Eastbound				PEAR AVE Westbound				SHORELINE BLVD Northbound				SHORELINE BLVD Southbound					Rolling Hour	Pedestrain Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
7:00 AM	0	0	0	7	0	12	1	11	0	2	205	68	0	8	35	0	349	1,825	1	0	0	0
7:15 AM	0	0	1	4	0	14	1	13	1	1	248	68	1	14	36	0	402	2,160	1	0	0	0
7:30 AM	0	0	1	9	0	12	0	18	1	3	323	63	0	17	46	1	494	2,486	0	0	0	0
7:45 AM	0	0	0	5	0	15	1	18	0	1	406	81	1	13	39	0	580	2,731	3	2	2	4
8:00 AM	0	0	0	9	0	18	0	10	0	7	485	56	1	22	76	0	684	2,844	1	2	0	1
8:15 AM	0	0	1	6	0	25	1	7	3	6	516	69	1	14	79	0	728	2,928	1	2	2	1
8:30 AM	0	0	1	13	0	18	0	11	0	9	534	66	2	8	76	1	739	2,966	0	3	1	2
8:45 AM	0	0	1	5	0	16	0	12	1	2	505	58	2	16	74	1	693	2,943	2	4	0	2
9:00 AM	0	0	2	9	0	18	0	16	0	4	525	85	1	18	89	1	768	2,978	0	2	0	0
9:15 AM	0	0	2	48	0	12	1	18	0	7	499	73	3	20	83	0	766		1	0	1	0
9:30 AM	0	0	1	12	0	12	2	14	1	6	498	65	2	22	81	0	716		3	0	2	0
9:45 AM	0	0	2	6	0	17	0	8	1	12	514	65	3	22	78	0	728		1	0	0	0
Count Total	0	0	12	133	0	189	7	156	8	60	5,258	817	17	194	792	4	7,647		14	15	8	10
Peak Hour	0	0	7	75	0	59	3	56	2	29	2,036	288	9	82	331	1	####		5	2	3	0

All Traffic Data Services Inc.

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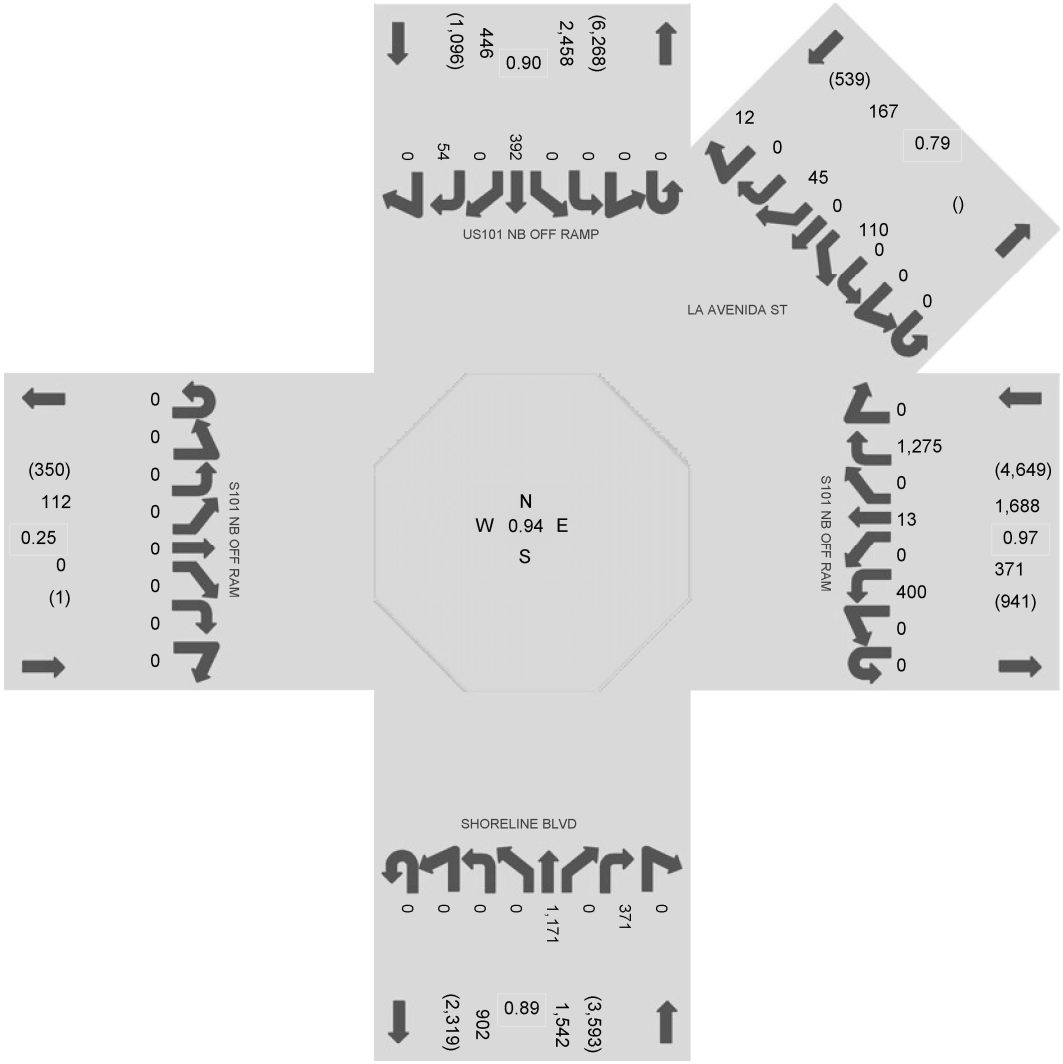
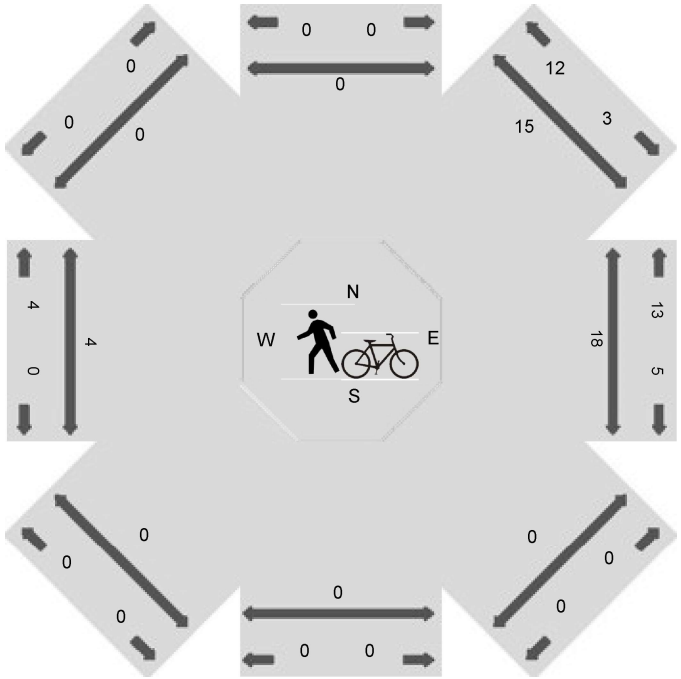
Location: 2 SHORELINE BLVD & US101 NB OFF RAMP AM
Date and Start Time: Tuesday, September 25, 2018
Peak Hour: 08:15 AM - 09:15 AM
Peak 15-Minutes: 08:30 AM - 08:45 AM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles on Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

Interval Start Time	Westbound								Northwestbound								Northbound								Northereastbound							
	U	HL	L	BL	T	BR	R	HR	U	HL	L	BL	T	BR	R	HR	U	HL	L	BL	T	BR	R	HR	U	HL	L	BL	T	BR	R	HR
7:00 AM	0	0	59	0	0	0	215	0									0	0	0	0	69	0	67	0								
7:15 AM	0	0	50	0	2	0	229	0									0	0	0	0	77	0	68	0								
7:30 AM	0	0	62	0	3	0	271	0									0	0	0	0	110	0	81	0								
7:45 AM	0	0	70	0	13	0	330	0									0	0	0	0	161	0	122	0								
8:00 AM	0	0	60	0	7	0	382	0									0	0	0	0	190	0	112	0								
8:15 AM	0	0	97	0	2	0	351	0									0	0	0	0	252	0	146	0								
8:30 AM	0	0	89	0	6	0	340	0									0	0	0	0	299	0	135	0								
8:45 AM	0	0	110	0	5	0	241	0									0	0	0	0	335	0	58	0								
9:00 AM	0	0	104	0	0	0	343	0									0	0	0	0	285	0	32	0								
9:15 AM	0	0	102	0	0	0	303	0									0	0	0	0	303	0	39	0								
9:30 AM	0	0	116	0	0	0	291	0									0	0	0	0	293	0	44	0								
9:45 AM	0	0	107	0	0	0	289	0									0	0	0	0	278	0	37	0								
Count Total	0	0	1,026	0	38	0	3,585	0									0	0	0	0	2,652	0	941	0								
Peak Hour	0	0	400	0	13	0	1,275	0									0	0	0	0	1,171	0	371	0								

Interval Start Time	Eastbound								Southeastbound								Southbound								Southwestbound								Total	Rolling Hour
	U	HL	L	BL	T	BR	R	HR	U	HL	L	BL	T	BR	R	HR	U	HL	L	BL	T	BR	R	HR	U	HL	L	BL	T	BR	R	HR		
7:00 AM	0	0	0	0	0	0	0	0									0	0	0	0	42	0	10	0	0	0	0	22	0	5	0	3	492	2,485
7:15 AM	0	0	0	0	0	0	0	0									0	0	0	0	43	0	13	0	0	0	0	16	0	9	0	1	508	2,856
7:30 AM	0	0	0	0	0	0	0	0									0	0	0	0	53	0	11	0	0	0	0	38	0	25	0	3	657	3,351
7:45 AM	0	0	0	0	0	0	0	0									0	0	0	0	53	0	18	0	0	0	0	32	0	26	0	3	828	3,713
8:00 AM	0	0	0	0	0	0	0	0									0	0	0	0	65	0	6	0	0	0	0	23	0	15	0	3	863	3,771
8:15 AM	0	0	0	0	0	0	0	0									0	0	0	0	96	0	18	0	0	0	0	26	0	14	0	1	1,003	3,843
8:30 AM	0	0	0	0	0	0	0	0									0	0	0	0	91	0	15	0	0	0	0	26	0	14	0	4	1,019	3,734
8:45 AM	0	0	0	0	0	0	0	0									0	0	0	0	95	0	11	0	0	0	0	25	0	2	0	4	886	3,615
9:00 AM	0	0	0	0	0	0	0	0									0	0	0	0	110	0	10	0	0	0	0	33	0	15	0	3	935	3,622
9:15 AM	0	0	0	0	0	0	0	0									0	0	0	0	100	0	7	0	0	0	0	28	0	10	0	2	894	
9:30 AM	0	0	1	0	0	0	0	0									0	0	0	0	87	0	16	0	0	0	0	37	0	13	0	2	900	
9:45 AM	0	0	0	0	0	0	0	0									0	0	0	0	114	0	12	0	0	0	0	38	0	17	0	1	893	
Count Total	0	0	1	0	0	0	0	0									0	0	0	0	949	0	147	0	0	0	0	344	0	165	0	30	9,878	
Peak Hour	0	0	0	0	0	0	0	0									0	0	0	0	392	0	54	0	0	0	0	110	0	45	0	12	3,843	

All Traffic Data Services Inc.
(303) 216-2439
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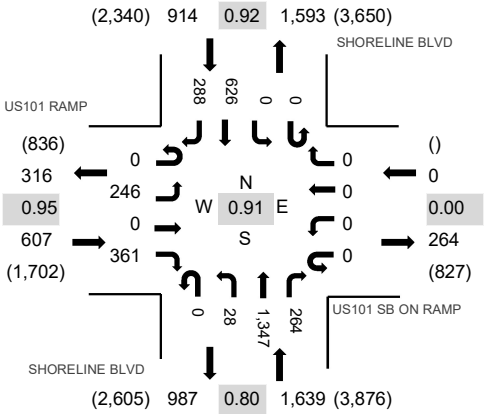
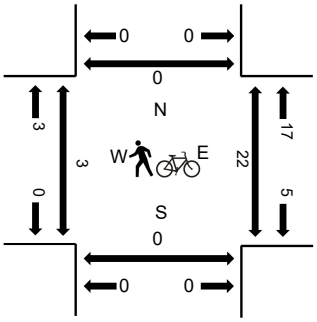
Location: 3 SHORELINE BLVD & US101 SB ON RAMP AM
Date and Start Time: Tuesday, September 25, 2018
Peak Hour: 08:15 AM - 09:15 AM
Peak 15-Minutes: 08:30 AM - 08:45 AM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles on Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

Interval Start Time	US101 RAMP Eastbound				US101 SB ON RAMP Westbound				SHORELINE BLVD Northbound				SHORELINE BLVD Southbound					Rolling Hour	Pedestrain Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
7:00 AM	0	35	0	66	0	0	0	0	0	1	95	64	0	0	74	47	382	2,008	1	0	0	0
7:15 AM	0	36	0	72	0	0	0	0	0	8	121	71	0	0	71	38	417	2,242	0	0	0	0
7:30 AM	0	34	0	90	0	0	0	0	0	14	158	104	0	0	103	59	562	2,609	0	0	0	0
7:45 AM	0	62	0	86	0	0	0	0	0	8	232	97	0	0	113	49	647	2,915	1	0	0	0
8:00 AM	0	59	0	70	0	0	0	0	0	5	243	89	0	0	95	55	616	3,074	3	2	0	0
8:15 AM	0	60	0	76	0	0	0	0	0	9	330	86	0	0	144	79	784	3,160	1	5	0	0
8:30 AM	0	53	0	77	0	0	0	0	0	12	418	97	0	0	146	65	868	3,055	1	2	0	0
8:45 AM	0	70	0	104	0	0	0	0	0	6	349	44	0	0	160	73	806	2,901	1	9	0	0
9:00 AM	0	63	0	104	0	0	0	0	0	1	250	37	0	0	176	71	702	2,836	0	3	0	0
9:15 AM	0	66	0	91	0	0	0	0	0	1	260	36	0	0	156	69	679		1	3	0	0
9:30 AM	0	77	0	84	0	0	0	0	0	8	263	49	0	0	174	59	714		0	2	0	0
9:45 AM	0	64	0	103	0	0	0	0	0	5	252	53	0	0	170	94	741		0	1	0	0
Count Total	0	679	0	1,023	0	0	0	0	0	78	2,971	827	0	0	1,582	758	7,918		9	27	0	0
Peak Hour	0	246	0	361	0	0	0	0	0	28	1,347	264	0	0	626	288	####		3	19	0	0

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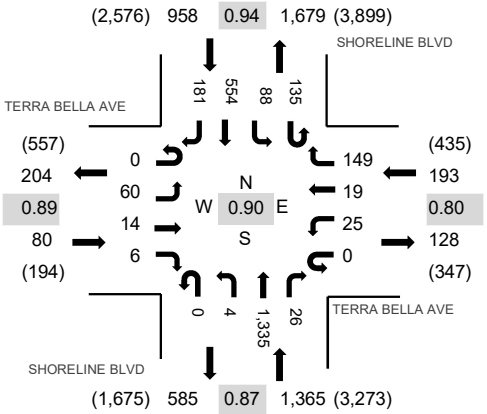
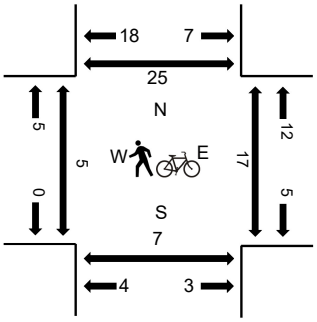
Location: 4 SHORELINE BLVD & TERRA BELLA AVE AM
Date and Start Time: Tuesday, September 25, 2018
Peak Hour: 08:15 AM - 09:15 AM
Peak 15-Minutes: 08:30 AM - 08:45 AM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles on Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

Interval Start Time	TERRA BELLA AVE Eastbound				TERRA BELLA AVE Westbound				SHORELINE BLVD Northbound				SHORELINE BLVD Southbound					Rolling Hour	Pedestrain Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
7:00 AM	0	9	0	0	0	1	1	15	0	1	133	5	0	15	99	28	307	1,702	0	0	0	0
7:15 AM	0	8	0	1	0	3	0	17	0	4	175	9	0	17	103	20	357	1,921	0	0	0	0
7:30 AM	0	13	0	0	0	3	1	18	0	7	233	8	0	18	138	34	473	2,205	1	2	4	0
7:45 AM	0	9	2	0	0	4	8	22	0	6	313	11	0	19	128	43	565	2,452	1	0	0	2
8:00 AM	0	8	1	0	0	1	5	23	0	4	310	9	1	11	128	25	526	2,548	2	2	2	2
8:15 AM	0	9	0	1	0	7	6	25	0	3	366	6	27	18	137	36	641	2,596	1	2	2	1
8:30 AM	0	17	0	1	0	4	4	53	0	1	410	8	34	21	129	38	720	2,486	2	5	0	11
8:45 AM	0	17	9	1	0	7	4	37	0	0	328	6	43	23	134	52	661	2,307	0	4	3	4
9:00 AM	0	17	5	3	0	7	5	34	0	0	231	6	31	26	154	55	574	2,228	0	4	2	8
9:15 AM	0	14	6	1	0	9	6	26	0	1	205	5	39	18	144	57	531		0	0	1	4
9:30 AM	0	13	6	4	0	3	5	33	0	2	219	5	45	21	140	45	541		1	1	3	2
9:45 AM	0	14	4	1	0	3	3	32	0	4	229	10	44	19	176	43	582		2	1	1	4
Count Total	0	148	33	13	0	52	48	335	0	33	3,152	88	264	226	1,610	476	6,478		10	21	18	38
Peak Hour	0	60	14	6	0	25	19	149	0	4	1,335	26	135	88	554	181	####		3	15	7	24

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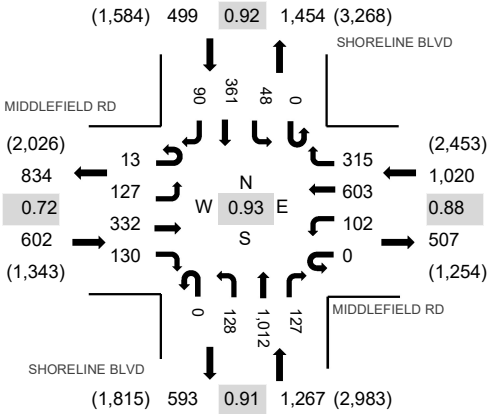
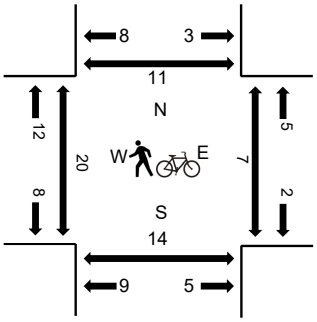
Location: 5 SHORELINE BLVD & MIDDLEFIELD RD AM
Date and Start Time: Tuesday, September 25, 2018
Peak Hour: 07:45 AM - 08:45 AM
Peak 15-Minutes: 08:15 AM - 08:30 AM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles on Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

Interval Start Time	MIDDLEFIELD RD Eastbound				MIDDLEFIELD RD Westbound				SHORELINE BLVD Northbound				SHORELINE BLVD Southbound					Rolling Hour	Pedestrain Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
7:00 AM	0	13	13	13	0	21	54	17	0	10	101	15	0	3	71	12	343	2,324	0	0	3	0
7:15 AM	1	17	16	12	0	20	80	28	0	31	145	21	0	6	83	22	482	2,741	0	1	1	3
7:30 AM	1	24	61	30	0	29	134	30	0	37	183	27	0	6	99	20	681	3,167	3	1	1	2
7:45 AM	4	33	86	46	0	19	143	51	0	39	251	31	0	10	89	16	818	3,388	4	2	2	4
8:00 AM	2	20	68	22	0	27	131	59	0	43	225	36	0	10	80	37	760	3,388	3	2	3	2
8:15 AM	4	28	59	21	0	26	190	96	0	33	285	30	0	8	105	23	908	3,290	4	1	6	1
8:30 AM	3	46	119	41	0	30	139	109	0	13	251	30	0	20	87	14	902	3,079	8	1	2	3
8:45 AM	3	19	82	29	0	32	129	126	0	30	195	31	0	14	114	14	818	2,811	1	4	2	1
9:00 AM	4	26	62	17	2	32	110	64	0	28	134	20	1	24	120	18	662	2,651	2	6	6	3
9:15 AM	6	18	66	27	0	27	95	54	0	42	153	58	0	22	110	19	697		1	1	3	0
9:30 AM	6	24	45	16	1	31	89	53	0	35	157	39	0	16	107	15	634		1	2	1	0
9:45 AM	3	19	47	21	0	33	85	57	0	41	156	27	0	23	128	18	658		1	2	2	0
Count Total	37	287	724	295	3	327	1,379	744	0	382	2,236	365	1	162	1,193	228	8,363		28	23	32	19
Peak Hour	13	127	332	130	0	102	603	315	0	128	1,012	127	0	48	361	90	####		19	6	13	10

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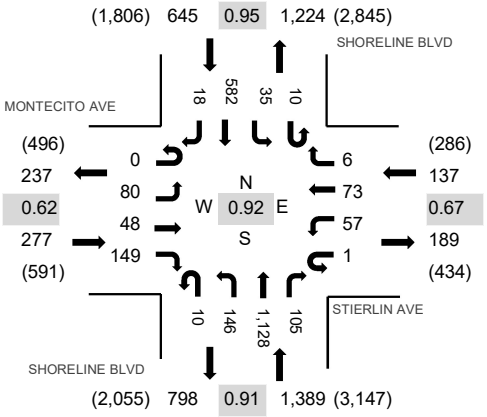
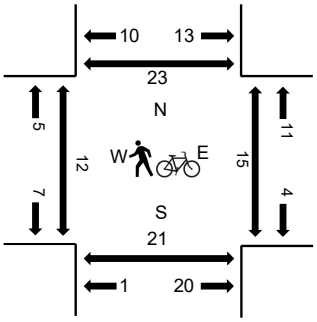
Location: 6 SHORELINE BLVD & STIERLIN AVE AM
Date and Start Time: Tuesday, September 25, 2018
Peak Hour: 08:00 AM - 09:00 AM
Peak 15-Minutes: 08:15 AM - 08:30 AM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles on Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

Interval Start Time	MONTECITO AVE Eastbound				STIERLIN AVE Westbound				SHORELINE BLVD Northbound				SHORELINE BLVD Southbound					Rolling Hour	Pedestrain Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
7:00 AM	0	12	2	10	0	6	4	0	1	11	118	8	4	1	79	7	263	1,563	2	0	3	2
7:15 AM	0	15	4	10	0	6	5	0	2	13	158	6	1	5	97	4	326	1,857	2	1	1	2
7:30 AM	0	22	10	19	0	9	11	0	0	17	212	10	1	4	143	4	462	2,195	2	0	2	1
7:45 AM	0	18	5	22	0	17	18	0	2	16	251	15	7	10	131	0	512	2,395	0	0	2	3
8:00 AM	0	15	2	19	0	14	15	1	3	35	295	19	3	6	129	1	557	2,448	0	2	4	4
8:15 AM	0	16	9	54	1	16	36	1	0	51	310	19	2	9	136	4	664	2,368	5	3	5	5
8:30 AM	0	39	21	52	0	9	14	2	5	22	291	22	4	14	159	8	662	2,137	4	6	3	8
8:45 AM	0	10	16	24	0	18	8	2	2	38	232	45	1	6	158	5	565	1,945	0	3	0	1
9:00 AM	0	7	10	21	0	9	5	3	5	42	162	37	3	23	144	6	477	1,819	0	3	2	1
9:15 AM	0	15	9	20	0	10	7	2	2	22	162	12	8	12	147	5	433		1	5	5	3
9:30 AM	0	16	4	21	0	12	10	0	0	16	228	20	7	6	125	5	470		1	2	2	1
9:45 AM	0	16	4	22	0	8	6	1	1	21	168	20	4	8	156	4	439		0	5	1	3
Count Total	0	201	96	294	1	134	139	12	23	304	2,587	233	45	104	1,604	53	5,830		17	30	30	34
Peak Hour	0	80	48	149	1	57	73	6	10	146	1,128	105	10	35	582	18	####		9	14	12	18

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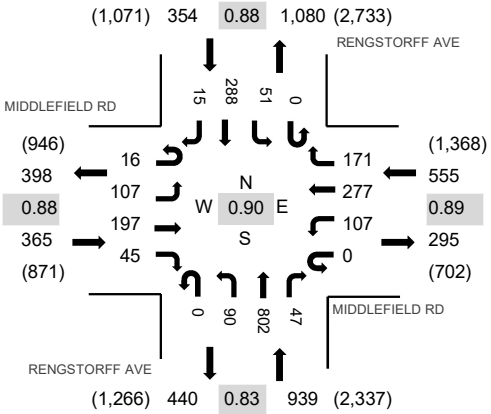
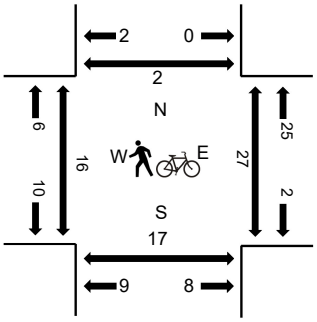
Location: 7 RENGSTORFF AVE & MIDDLEFIELD RD AM
Date and Start Time: Tuesday, September 25, 2018
Peak Hour: 08:00 AM - 09:00 AM
Peak 15-Minutes: 08:30 AM - 08:45 AM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles on Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

Interval Start Time	MIDDLEFIELD RD Eastbound				MIDDLEFIELD RD Westbound				RENGSTORFF AVE Northbound				RENGSTORFF AVE Southbound					Rolling Hour	Pedestrain Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
7:00 AM	2	21	5	1	0	12	18	10	0	4	75	6	0	4	56	2	216	1,502	4	5	3	0
7:15 AM	5	27	11	7	0	23	32	22	0	8	99	11	0	8	51	2	306	1,796	0	1	2	1
7:30 AM	5	30	21	5	0	39	46	29	0	8	139	21	0	10	84	5	442	2,029	0	6	0	0
7:45 AM	6	18	30	7	1	50	85	32	0	21	167	10	0	10	95	6	538	2,205	3	2	1	0
8:00 AM	3	23	47	7	0	30	75	39	0	22	179	12	0	7	62	4	510	2,213	3	1	8	0
8:15 AM	5	25	41	12	0	33	70	40	0	15	180	10	0	20	86	2	539	2,193	3	2	1	1
8:30 AM	3	33	55	15	0	18	67	55	0	32	239	12	0	10	75	4	618	2,129	6	4	6	0
8:45 AM	5	26	54	11	0	26	65	37	0	21	204	13	0	14	65	5	546	1,962	3	2	0	0
9:00 AM	3	29	47	8	0	10	59	45	0	24	171	11	0	12	68	3	490	1,932	9	1	3	0
9:15 AM	5	25	36	8	1	14	42	41	0	15	175	15	0	13	81	4	475		4	3	5	1
9:30 AM	1	26	32	8	0	13	42	35	0	16	172	5	0	20	77	4	451		4	0	2	1
9:45 AM	4	21	42	10	0	14	51	47	0	16	197	12	0	13	85	4	516		3	6	7	2
Count Total	47	304	421	99	2	282	652	432	0	202	1,997	138	0	141	885	45	5,647		42	33	38	6
Peak Hour	16	107	197	45	0	107	277	171	0	90	802	47	0	51	288	15	####		15	9	15	1

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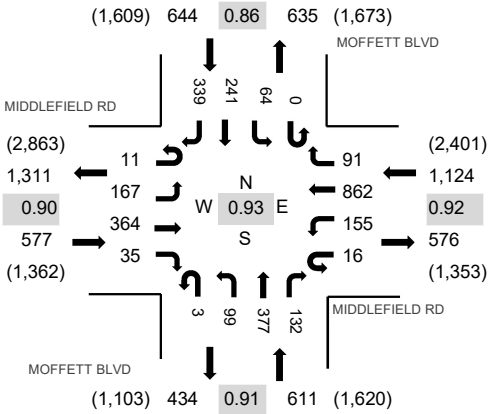
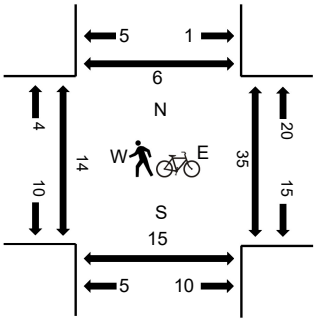
Location: 8 MOFFETT BLVD & MIDDLEFIELD RD AM
Date and Start Time: Tuesday, September 25, 2018
Peak Hour: 08:00 AM - 09:00 AM
Peak 15-Minutes: 08:30 AM - 08:45 AM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles on Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

Interval Start Time	MIDDLEFIELD RD Eastbound				MIDDLEFIELD RD Westbound				MOFFETT BLVD Northbound				MOFFETT BLVD Southbound					Rolling Hour	Pedestrain Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
7:00 AM	0	14	17	1	4	14	58	14	0	10	57	7	0	9	34	30	269	1,773	2	6	2	3
7:15 AM	0	18	19	1	4	22	91	10	0	17	68	15	0	10	37	33	345	2,146	2	9	2	0
7:30 AM	1	30	47	12	5	28	159	20	0	27	76	18	0	15	66	43	547	2,561	2	5	2	1
7:45 AM	2	29	84	16	9	38	134	37	0	23	78	32	0	12	75	43	612	2,809	1	9	6	2
8:00 AM	2	39	82	11	5	44	174	29	0	19	81	28	0	14	51	63	642	2,956	2	8	3	0
8:15 AM	7	34	90	7	5	45	226	29	1	26	84	23	0	16	77	90	760	2,930	4	7	3	1
8:30 AM	1	45	108	7	2	36	226	21	1	23	96	41	0	20	54	114	795	2,785	2	6	4	2
8:45 AM	1	49	84	10	4	30	236	12	1	31	116	40	0	14	59	72	759	2,545	4	14	5	1
9:00 AM	1	40	66	11	2	22	143	22	0	19	114	42	0	17	47	70	616	2,263	5	1	0	0
9:15 AM	5	49	87	13	4	20	123	13	1	37	89	35	0	21	44	74	615		2	10	2	1
9:30 AM	1	46	52	11	1	15	109	12	1	27	83	27	0	18	66	86	555		1	5	2	0
9:45 AM	4	38	60	10	4	19	103	18	0	17	63	26	0	8	45	62	477		1	5	0	1
Count Total	25	431	796	110	49	333	1,782	237	5	276	1,005	334	0	174	655	780	6,992		28	85	31	12
Peak Hour	11	167	364	35	16	155	862	91	3	99	377	132	0	64	241	339	####		12	35	15	4

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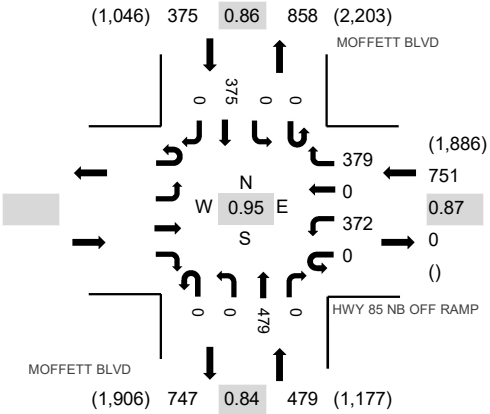
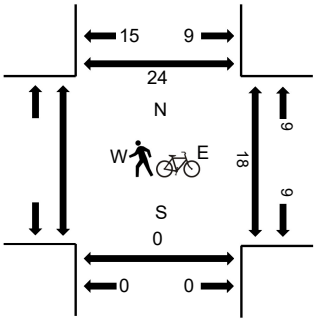
Location: 9 MOFFETT BLVD & HWY 85 NB OFF RAMP AM
Date and Start Time: Tuesday, September 25, 2018
Peak Hour: 08:15 AM - 09:15 AM
Peak 15-Minutes: 08:30 AM - 08:45 AM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles on Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

Interval Start Time	HWY 85 NB OFF RAMP Eastbound				HWY 85 NB OFF RAMP Westbound				MOFFETT BLVD Northbound				MOFFETT BLVD Southbound					Rolling Hour	Pedestrain Crossings		
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
7:00 AM					0	38	0	53	0	0	61	0	0	0	66	0	218	1,129	5	0	3
7:15 AM					0	34	0	70	0	0	68	0	0	0	53	0	225	1,236	6	0	4
7:30 AM					0	55	0	84	0	0	81	0	0	0	93	0	313	1,406	2	0	3
7:45 AM					0	71	0	117	0	0	79	0	0	0	106	0	373	1,517	5	0	3
8:00 AM					0	69	0	81	0	0	86	0	0	0	89	0	325	1,556	4	0	3
8:15 AM					0	92	0	84	0	0	99	0	0	0	120	0	395	1,605	3	0	4
8:30 AM					0	119	0	96	0	0	109	0	0	0	100	0	424	1,551	5	0	6
8:45 AM					0	78	0	109	0	0	147	0	0	0	78	0	412	1,516	3	0	0
9:00 AM					0	83	0	90	0	0	124	0	0	0	77	0	374	1,424	2	0	5
9:15 AM					0	75	0	74	0	0	110	0	0	0	82	0	341		1	0	1
9:30 AM					0	86	0	99	0	0	113	0	0	0	91	0	389		0	0	4
9:45 AM					0	60	0	69	0	0	100	0	0	0	91	0	320		1	0	1
Count Total					0	860	0	1,026	0	0	1,177	0	0	0	1,046	0	4,109		37	0	37
Peak Hour					0	372	0	379	0	0	479	0	0	0	375	0	####		13	0	15

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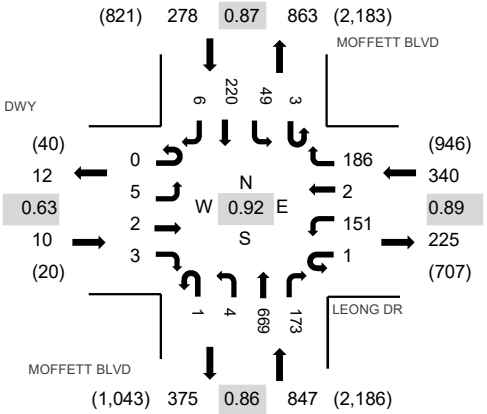
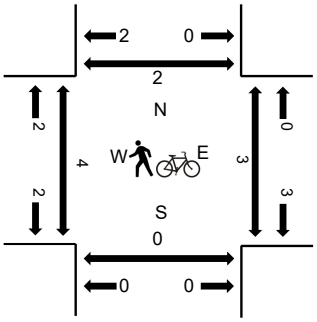
Location: 10 MOFFETT BLVD & LEONG DR AM
Date and Start Time: Tuesday, September 25, 2018
Peak Hour: 08:15 AM - 09:15 AM
Peak 15-Minutes: 08:45 AM - 09:00 AM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles on Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

Interval Start Time	DWY Eastbound				LEONG DR Westbound				MOFFETT BLVD Northbound				MOFFETT BLVD Southbound					Rolling Hour	Pedestrain Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
7:00 AM	0	2	0	1	0	28	0	32	0	0	101	17	0	14	37	3	235	1,187	1	0	0	0
7:15 AM	0	1	0	0	0	23	0	41	0	0	105	27	0	10	27	2	236	1,268	0	3	0	7
7:30 AM	0	0	1	0	0	54	0	51	0	3	111	53	0	24	42	1	340	1,404	4	1	0	4
7:45 AM	0	2	0	1	0	53	1	63	1	0	105	83	0	20	47	0	376	1,422	1	0	0	1
8:00 AM	0	0	0	0	0	38	0	46	0	1	124	36	0	16	52	3	316	1,446	0	2	0	1
8:15 AM	0	1	0	0	1	62	0	48	0	2	136	42	1	12	65	2	372	1,475	0	1	0	0
8:30 AM	0	0	2	2	0	32	1	50	0	2	158	46	0	8	54	3	358	1,420	1	2	0	1
8:45 AM	0	3	0	0	0	35	0	45	0	0	214	37	2	18	46	0	400	1,422	0	0	0	0
9:00 AM	0	1	0	1	0	22	1	43	1	0	161	48	0	11	55	1	345	1,340	1	0	0	0
9:15 AM	0	0	0	0	0	26	0	35	1	1	151	35	0	15	53	0	317		0	0	0	0
9:30 AM	0	1	0	0	0	25	0	31	0	1	164	51	0	19	66	2	360		0	1	0	0
9:45 AM	0	1	0	0	0	27	4	28	0	0	125	43	0	18	66	6	318		0	1	0	0
Count Total	0	12	3	5	1	425	7	513	3	10	1,655	518	3	185	610	23	3,973		8	11	0	14
Peak Hour	0	5	2	3	1	151	2	186	1	4	669	173	3	49	220	6	####		2	3	0	1

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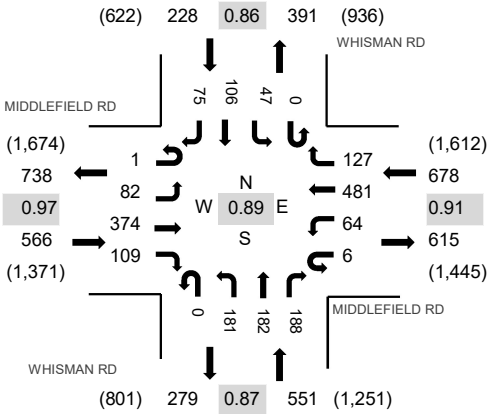
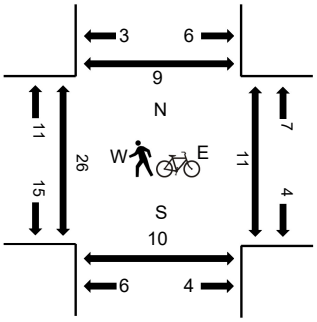
Location: 11 WHISMAN RD & MIDDLEFIELD RD AM
Date and Start Time: Tuesday, September 25, 2018
Peak Hour: 08:15 AM - 09:15 AM
Peak 15-Minutes: 08:30 AM - 08:45 AM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles on Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

Interval Start Time	MIDDLEFIELD RD Eastbound				MIDDLEFIELD RD Westbound				WHISMAN RD Northbound				WHISMAN RD Southbound					Rolling Hour	Pedestrain Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
7:00 AM	0	5	22	5	0	11	37	12	0	17	8	12	0	7	24	6	166	1,159	1	0	1	3
7:15 AM	1	6	28	11	0	12	72	13	0	17	18	19	0	3	29	12	241	1,460	2	0	0	4
7:30 AM	0	10	39	34	0	12	96	18	0	23	18	17	0	9	54	10	340	1,696	2	2	0	1
7:45 AM	0	7	86	39	1	8	119	21	0	27	27	28	0	6	36	7	412	1,925	2	2	2	2
8:00 AM	0	18	94	27	1	8	123	28	0	50	47	21	1	5	34	10	467	2,006	7	1	0	1
8:15 AM	0	12	66	31	2	15	151	29	0	53	37	35	0	7	24	15	477	2,023	2	7	1	0
8:30 AM	0	27	97	34	1	17	152	28	0	52	43	50	0	13	29	26	569	2,015	3	1	1	2
8:45 AM	1	21	105	28	1	12	117	35	0	35	47	41	0	16	20	14	493	1,865	4	1	5	1
9:00 AM	0	22	106	16	2	20	61	35	0	41	55	62	0	11	33	20	484	1,691	14	2	2	6
9:15 AM	2	20	112	24	2	14	77	48	0	31	42	46	0	15	18	18	469		2	2	3	2
9:30 AM	1	8	65	27	1	17	65	49	0	29	45	59	0	14	24	15	419		2	0	0	2
9:45 AM	0	14	78	22	0	9	37	23	0	29	38	32	1	8	23	5	319		4	0	1	0
Count Total	5	170	898	298	11	155	1,107	339	0	404	425	422	2	114	348	158	4,856		45	18	16	24
Peak Hour	1	82	374	109	6	64	481	127	0	181	182	188	0	47	106	75	####		23	11	9	9

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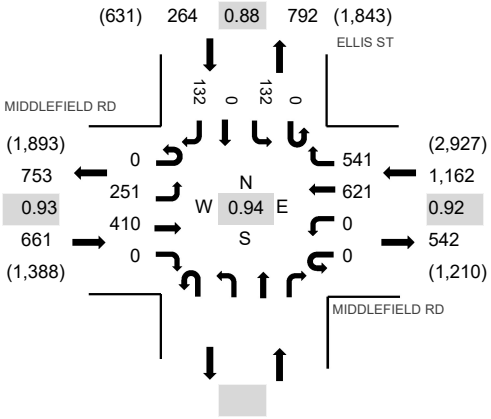
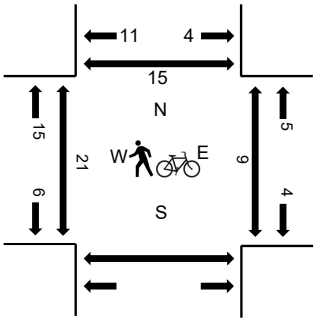
Location: 12 ELLIS ST & MIDDLEFIELD RD AM
Date and Start Time: Tuesday, September 25, 2018
Peak Hour: 08:30 AM - 09:30 AM
Peak 15-Minutes: 08:30 AM - 08:45 AM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles on Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

Interval Start Time	MIDDLEFIELD RD Eastbound				MIDDLEFIELD RD Westbound				Northbound				ELLIS ST Southbound					Rolling Hour	Pedestrain Crossings		
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
7:00 AM	0	18	25	0	0	0	59	48					0	20	0	14	184	1,138	0	0		1
7:15 AM	0	15	33	0	0	0	106	64					0	18	0	15	251	1,352	0	1		1
7:30 AM	0	26	33	0	0	0	118	80					0	22	0	18	297	1,553	1	1		2
7:45 AM	0	32	75	0	0	0	152	102					0	23	0	22	406	1,814	8	0		6
8:00 AM	0	35	66	0	0	0	154	97					0	23	0	23	398	1,937	15	1		10
8:15 AM	0	35	81	0	0	0	187	101					0	23	0	25	452	2,029	3	0		4
8:30 AM	0	68	96	0	0	0	184	135					0	41	0	34	558	2,087	2	1		8
8:45 AM	0	58	109	0	0	0	177	127					0	25	0	33	529	2,005	8	1		3
9:00 AM	0	59	94	0	0	0	126	136					0	40	0	35	490	1,871	7	2		2
9:15 AM	0	66	111	0	0	0	134	143					0	26	0	30	510		4	2		2
9:30 AM	1	60	79	0	0	0	126	150					0	39	0	21	476		3	0		0
9:45 AM	0	45	68	0	0	0	78	143					0	40	0	21	395		1	3		0
Count Total	1	517	870	0	0	0	1,601	1,326					0	340	0	291	4,946		52	12		39
Peak Hour	0	251	410	0	0	0	621	541					0	132	0	132	####		21	6		15

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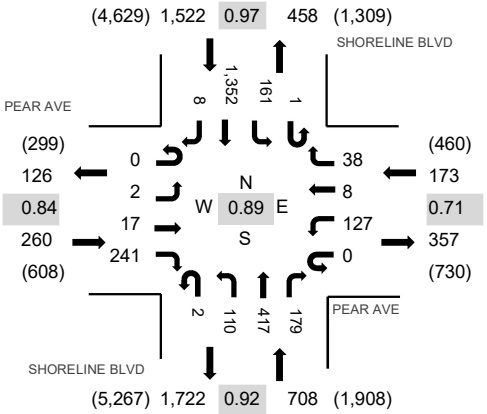
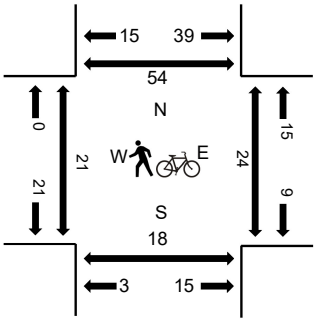
Location: 1 SHORELINE BLVD & PEAR AVE PM
Date and Start Time: Tuesday, September 25, 2018
Peak Hour: 06:00 PM - 07:00 PM
Peak 15-Minutes: 06:45 PM - 07:00 PM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles on Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

Interval Start Time	PEAR AVE Eastbound				PEAR AVE Westbound				SHORELINE BLVD Northbound				SHORELINE BLVD Southbound					Rolling Hour	Pedestrain Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
4:00 PM	0	0	0	21	0	19	0	9	0	23	125	31	1	9	313	4	555	2,391	0	0	4	4
4:15 PM	0	0	1	12	0	22	4	12	1	23	91	41	0	16	357	0	580	2,468	0	0	2	1
4:30 PM	0	1	1	18	0	23	2	7	2	21	99	37	1	11	413	0	636	2,535	0	3	0	3
4:45 PM	0	0	0	42	0	26	1	11	0	11	92	31	1	11	394	0	620	2,567	0	1	1	1
5:00 PM	0	1	0	51	0	34	1	4	0	16	78	34	1	8	402	2	632	2,551	0	1	1	3
5:15 PM	0	0	2	61	0	18	0	8	1	18	106	34	0	12	386	1	647	2,488	0	3	0	11
5:30 PM	0	0	0	78	0	38	1	7	1	16	79	33	0	19	394	2	668	2,497	0	0	1	5
5:45 PM	0	0	1	58	0	32	2	6	0	24	111	21	0	20	328	1	604	2,520	0	4	2	11
6:00 PM	0	1	4	57	0	19	3	11	0	19	113	42	0	11	287	2	569	2,663	0	4	3	6
6:15 PM	0	1	5	49	0	30	1	13	0	18	106	37	1	53	342	0	656		2	7	3	12
6:30 PM	0	0	4	63	0	25	2	8	1	31	105	56	0	40	353	3	691		6	5	4	17
6:45 PM	0	0	4	72	0	53	2	6	1	42	93	44	0	57	370	3	747		11	5	8	10
Count Total	0	4	22	582	0	339	19	102	7	262	1,198	441	5	267	4,339	18	7,605		19	33	29	84
Peak Hour	0	2	17	241	0	127	8	38	2	110	417	179	1	161	1,352	8	####		19	21	18	45

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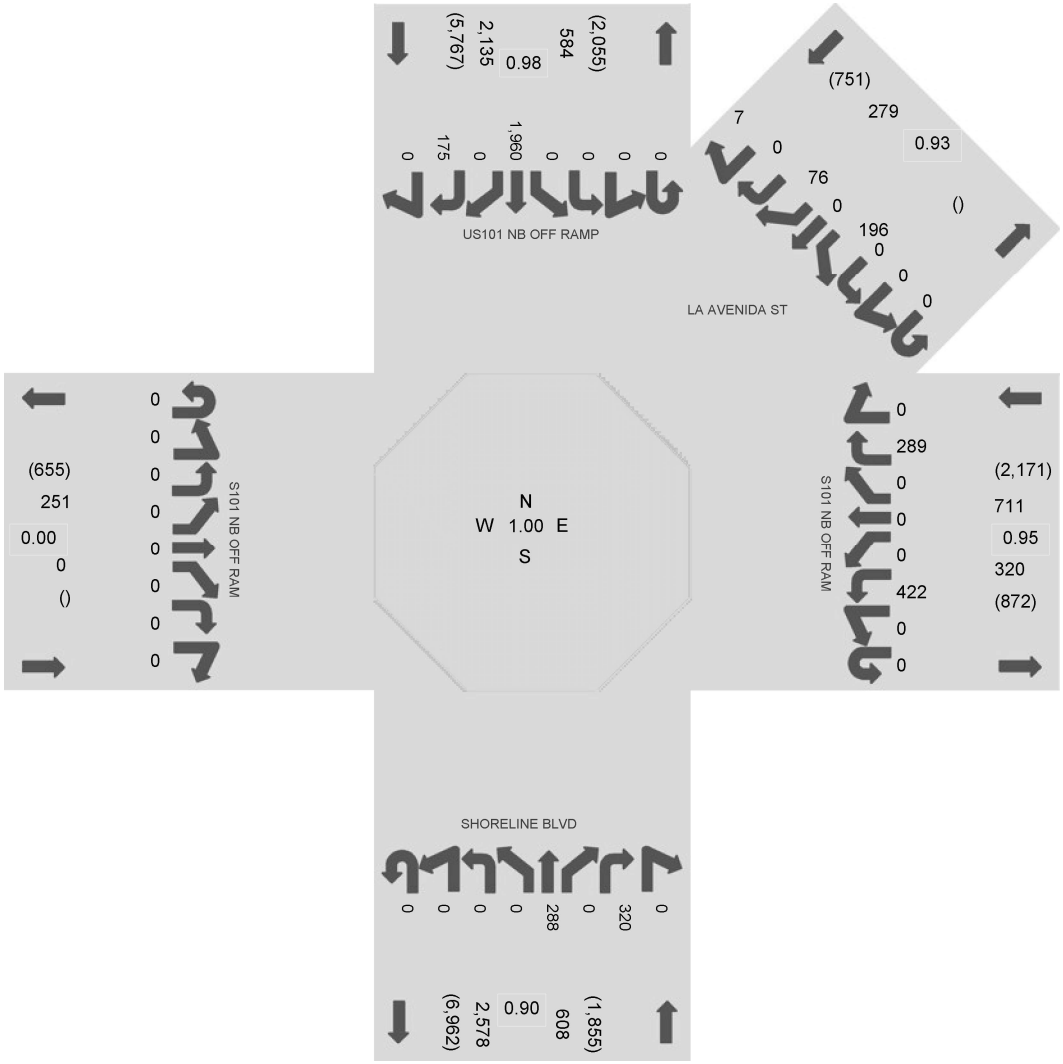
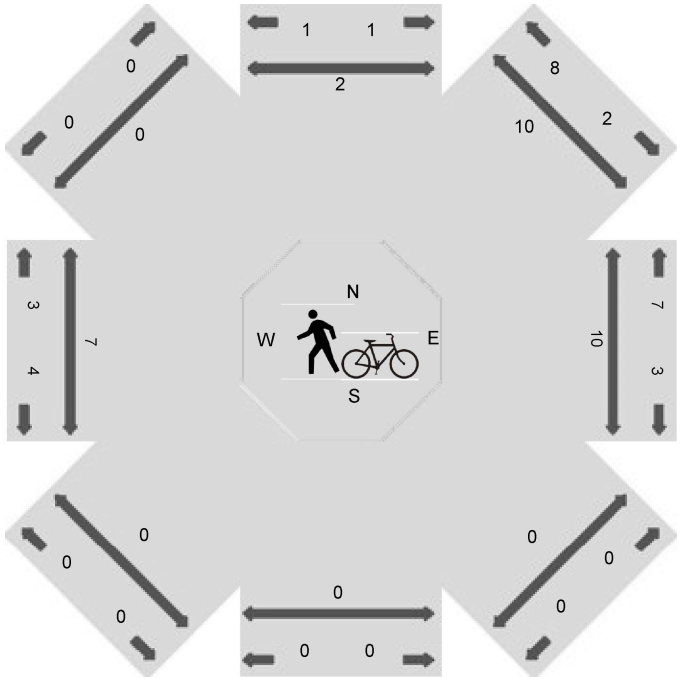
Location: 2 SHORELINE BLVD & US101 NB OFF RAMP PM
Date and Start Time: Tuesday, September 25, 2018
Peak Hour: 04:45 PM - 05:45 PM
Peak 15-Minutes: 04:45 PM - 05:00 PM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles on Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

Interval Start Time	Westbound								Northwestbound								Northbound								Northereastbound							
	U	HL	L	BL	T	BR	R	HR	U	HL	L	BL	T	BR	R	HR	U	HL	L	BL	T	BR	R	HR	U	HL	L	BL	T	BR	R	HR
4:00 PM	0	0	116	0	0	0	89	0									0	0	0	0	82	0	90	0								
4:15 PM	0	0	92	0	0	0	85	0									0	0	0	0	81	0	58	0								
4:30 PM	0	0	112	0	0	0	82	0									0	0	0	0	77	0	86	0								
4:45 PM	0	0	133	0	0	0	73	0									0	0	0	0	71	0	79	0								
5:00 PM	0	0	79	0	0	0	62	0									0	0	0	0	76	0	101	0								
5:15 PM	0	0	102	0	0	0	93	0									0	0	0	0	67	0	79	0								
5:30 PM	0	0	108	0	0	0	61	0									0	0	0	0	74	0	61	0								
5:45 PM	0	0	108	0	0	0	108	0									0	0	0	0	72	0	80	0								
6:00 PM	0	0	72	0	0	0	91	0									0	0	0	0	78	0	61	0								
6:15 PM	0	0	62	0	0	0	100	0									0	0	0	0	90	0	51	0								
6:30 PM	0	0	75	0	0	0	100	0									0	0	0	0	116	0	73	0								
6:45 PM	0	0	75	0	0	0	93	0									0	0	0	0	99	0	53	0								
Count Total	0	0	1,134	0	0	0	1,037	0									0	0	0	0	983	0	872	0								
Peak Hour	0	0	422	0	0	0	289	0									0	0	0	0	288	0	320	0								

Interval Start Time	Eastbound								Southeastbound								Southbound								Southwestbound								Total	Rolling Hour
	U	HL	L	BL	T	BR	R	HR	U	HL	L	BL	T	BR	R	HR	U	HL	L	BL	T	BR	R	HR	U	HL	L	BL	T	BR	R	HR		
4:00 PM	0	0	0	0	0	0	0	0									0	0	0	0	314	0	36	0	0	0	0	52	0	16	0	9	804	3,444
4:15 PM	0	0	0	0	0	0	0	0									0	0	0	0	425	0	32	0	0	0	0	35	0	10	0	3	821	3,576
4:30 PM	0	0	0	0	0	0	0	0									0	0	0	0	419	0	34	0	0	0	0	53	0	15	0	4	882	3,692
4:45 PM	0	0	0	0	0	0	0	0									0	0	0	0	477	0	53	0	0	0	0	35	0	14	0	2	937	3,733
5:00 PM	0	0	0	0	0	0	0	0									0	0	0	0	501	0	39	0	0	0	0	59	0	17	0	2	936	3,711
5:15 PM	0	0	0	0	0	0	0	0									0	0	0	0	494	0	28	0	0	0	0	53	0	20	0	1	937	3,614
5:30 PM	0	0	0	0	0	0	0	0									0	0	0	0	488	0	55	0	0	0	0	49	0	25	0	2	923	3,471
5:45 PM	0	0	0	0	0	0	0	0									0	0	0	0	441	0	43	0	0	0	0	44	0	16	0	3	915	3,432
6:00 PM	0	0	0	0	0	0	0	0									0	0	0	0	445	0	28	0	0	0	0	51	0	9	0	4	839	3,389
6:15 PM	0	0	0	0	0	0	0	0									0	0	0	0	415	0	36	0	0	0	0	28	0	10	0	2	794	
6:30 PM	0	0	0	0	0	0	0	0									0	0	0	0	440	0	36	0	0	0	0	30	0	13	0	1	884	
6:45 PM	0	0	0	0	0	0	0	0									0	0	0	0	433	0	55	0	0	0	0	47	0	15	0	2	872	
Count Total	0	0	0	0	0	0	0	0									0	0	0	0	5,292	0	475	0	0	0	0	536	0	180	0	35	10,544	
Peak Hour	0	0	0	0	0	0	0	0									0	0	0	0	1,960	0	175	0	0	0	0	196	0	76	0	7	3,733	

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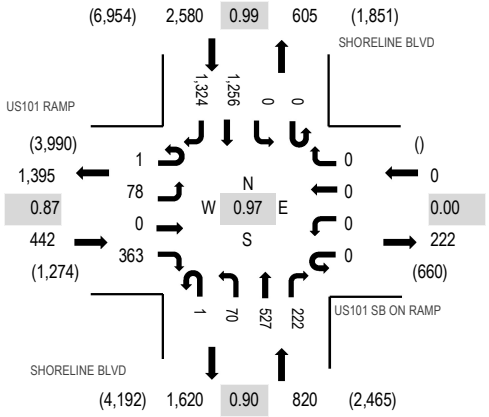
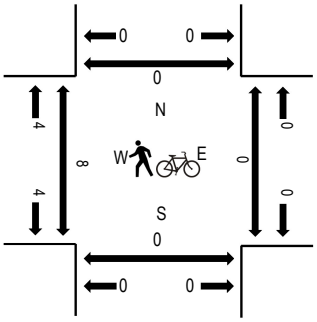
Location: 3 SHORELINE BLVD & US101 SB ON RAMP PM
Date: Tuesday, September 25, 2018
Peak Hour: 04:45 PM - 05:45 PM
Peak 15-Minutes: 05:30 PM - 05:45 PM

Peak Hour - All Vehicles



Note: Total study counts contained in parentheses.

Peak Hour - Pedestrians/Bicycles on Crosswalk



Traffic Counts

Interval Start Time	US101 RAMP Eastbound				US101 SB ON RAMP Westbound				SHORELINE BLVD Northbound				SHORELINE BLVD Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
4:00 PM	0	20	0	62	0	0	0	0	0	18	142	62	0	0	193	285	782	3,453	2	0	0	0
4:15 PM	0	18	0	59	0	0	0	0	0	19	126	47	0	0	255	290	814	3,632	1	3	0	0
4:30 PM	0	22	0	77	0	0	0	0	0	37	141	61	0	0	246	330	914	3,761	0	2	0	0
4:45 PM	0	18	0	71	0	0	0	0	0	16	134	58	0	0	323	323	943	3,842	2	0	0	0
5:00 PM	0	23	0	76	0	0	0	0	0	27	149	47	0	0	285	354	961	3,810	3	0	0	0
5:15 PM	1	19	0	88	0	0	0	0	1	14	118	52	0	0	366	284	943	3,729	1	0	0	0
5:30 PM	0	18	0	128	0	0	0	0	0	13	126	65	0	0	282	363	995	3,583	1	0	0	0
5:45 PM	1	23	0	104	0	0	0	0	0	15	128	46	0	0	281	313	911	3,469	1	0	0	0
6:00 PM	0	23	0	105	0	0	0	0	0	10	118	53	0	0	249	322	880	3,430	0	4	0	0
6:15 PM	0	30	0	68	0	0	0	0	0	15	119	57	0	0	222	286	797		1	1	0	0
6:30 PM	0	27	0	75	0	0	0	0	0	22	150	60	0	0	253	294	881		2	0	0	0
6:45 PM	0	32	0	86	0	0	0	0	0	20	127	52	0	0	237	318	872		2	4	0	0
Count Total	2	273	0	999	0	0	0	0	1	226	1,578	660	0	0	3,192	3,762	10,693		16	14	0	0
Peak Hour	1	78	0	363	0	0	0	0	1	70	527	222	0	0	1,256	1,324	3,842		7	0	0	0

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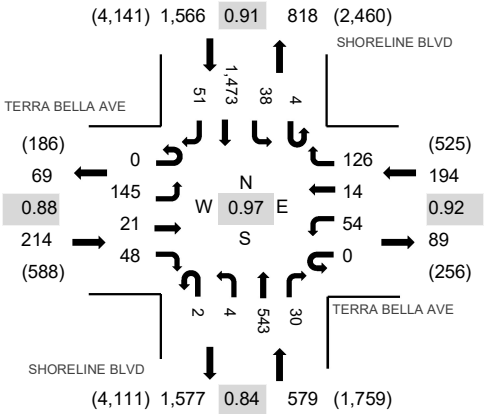
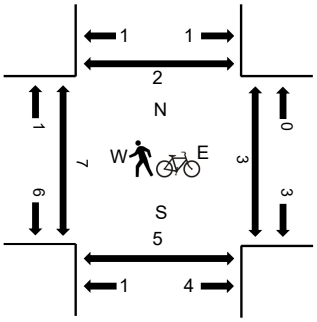
Location: 4 SHORELINE BLVD & TERRA BELLA AVE PM
Date and Start Time: Tuesday, September 25, 2018
Peak Hour: 04:45 PM - 05:45 PM
Peak 15-Minutes: 05:15 PM - 05:30 PM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles on Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

Interval Start Time	TERRA BELLA AVE Eastbound				TERRA BELLA AVE Westbound				SHORELINE BLVD Northbound				SHORELINE BLVD Southbound					Rolling Hour	Pedestrain Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
4:00 PM	0	46	1	7	0	6	1	30	0	2	140	3	5	12	227	10	490	2,255	2	0	2	1
4:15 PM	0	31	3	11	0	8	1	34	0	0	129	6	0	16	290	6	535	2,390	1	3	0	1
4:30 PM	0	41	3	14	0	10	3	45	0	1	143	4	3	13	297	15	592	2,516	0	1	0	0
4:45 PM	0	39	7	2	0	19	7	30	0	1	142	7	2	11	362	9	638	2,553	1	0	0	0
5:00 PM	0	37	7	21	0	11	0	45	0	0	140	10	2	7	330	15	625	2,497	2	1	3	1
5:15 PM	0	42	4	12	0	12	4	26	1	3	121	8	0	11	403	14	661	2,452	0	0	0	1
5:30 PM	0	27	3	13	0	12	3	25	1	0	140	5	0	9	378	13	629	2,354	4	2	1	0
5:45 PM	0	40	5	10	0	16	2	21	0	1	126	5	3	12	331	10	582	2,317	2	1	1	0
6:00 PM	0	24	6	11	0	14	2	28	0	0	133	6	0	11	329	16	580	2,261	0	2	0	3
6:15 PM	0	31	5	7	0	18	4	26	0	5	130	6	4	12	300	15	563		1	1	0	0
6:30 PM	0	35	2	9	0	9	5	27	0	1	177	6	1	8	303	9	592		2	1	2	1
6:45 PM	0	21	2	9	0	5	1	15	0	1	150	5	3	15	293	6	526		2	3	2	0
Count Total	0	414	48	126	0	140	33	352	2	15	1,671	71	23	137	3,843	138	7,013		17	15	11	8
Peak Hour	0	145	21	48	0	54	14	126	2	4	543	30	4	38	1,473	51	####		7	3	4	2

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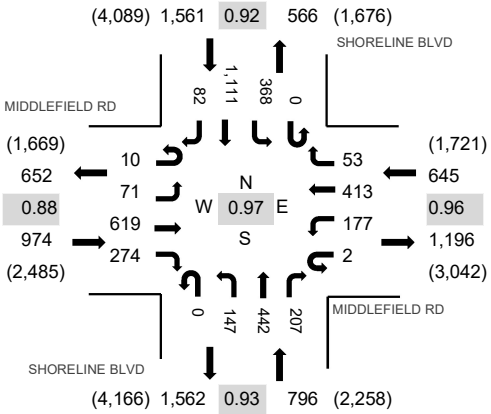
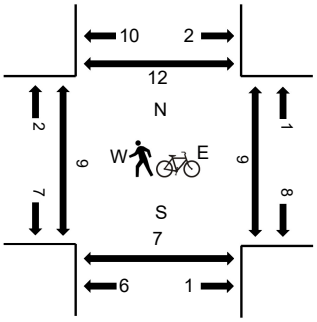
Location: 5 SHORELINE BLVD & MIDDLEFIELD RD PM
Date and Start Time: Tuesday, September 25, 2018
Peak Hour: 05:00 PM - 06:00 PM
Peak 15-Minutes: 05:15 PM - 05:30 PM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles on Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

Interval Start Time	MIDDLEFIELD RD Eastbound				MIDDLEFIELD RD Westbound				SHORELINE BLVD Northbound				SHORELINE BLVD Southbound					Rolling Hour	Pedestrain Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
4:00 PM	4	11	79	34	1	35	63	15	0	23	116	36	0	57	167	10	651	3,038	1	2	2	2
4:15 PM	1	16	92	35	2	32	64	14	0	31	85	41	0	71	193	9	686	3,333	4	2	1	1
4:30 PM	2	18	123	39	0	49	60	14	0	23	115	45	0	91	224	20	823	3,674	5	0	0	2
4:45 PM	2	21	137	55	2	34	82	10	0	36	109	44	0	99	232	15	878	3,845	1	0	5	0
5:00 PM	5	16	152	56	0	45	82	13	0	37	118	50	0	110	240	22	946	3,976	4	3	2	4
5:15 PM	2	16	157	68	2	43	113	10	0	37	113	63	0	94	287	22	1,027	3,933	3	0	0	1
5:30 PM	0	18	145	62	0	53	92	19	0	38	101	40	0	105	306	15	994	3,867	1	5	3	0
5:45 PM	3	21	165	88	0	36	126	11	0	35	110	54	0	59	278	23	1,009	3,722	1	1	2	4
6:00 PM	5	12	136	63	0	49	114	8	0	40	99	35	1	59	269	13	903	3,539	1	3	6	0
6:15 PM	6	15	156	77	0	55	102	22	0	29	95	42	0	57	297	8	961		0	1	2	5
6:30 PM	3	13	139	42	1	36	72	9	0	37	148	44	0	55	232	18	849		1	1	0	2
6:45 PM	4	14	98	59	0	38	73	20	0	34	110	45	0	59	258	14	826		0	1	0	2
Count Total	37	191	1,579	678	8	505	1,043	165	0	400	1,319	539	1	916	2,983	189	10,553		22	19	23	23
Peak Hour	10	71	619	274	2	177	413	53	0	147	442	207	0	368	1,111	82	####		9	9	7	9

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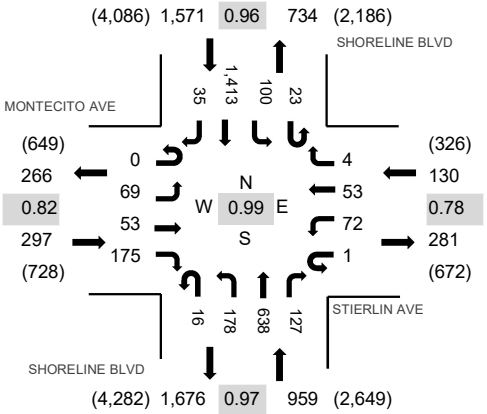
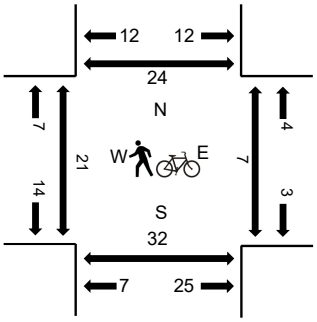
Location: 6 SHORELINE BLVD & STIERLIN AVE PM
Date and Start Time: Tuesday, September 25, 2018
Peak Hour: 05:15 PM - 06:15 PM
Peak 15-Minutes: 05:45 PM - 06:00 PM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles on Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

Interval Start Time	MONTECITO AVE Eastbound				STIERLIN AVE Westbound				SHORELINE BLVD Northbound				SHORELINE BLVD Southbound					Rolling Hour	Pedestrain Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
4:00 PM	0	16	11	28	0	15	16	0	2	33	121	17	8	11	203	13	494	2,193	6	1	1	4
4:15 PM	0	12	9	25	0	10	11	0	7	26	142	27	3	7	250	11	540	2,336	3	0	2	3
4:30 PM	0	23	4	20	3	14	10	0	4	31	147	17	6	22	266	7	574	2,535	1	2	2	1
4:45 PM	0	16	13	17	0	10	6	2	2	15	160	21	7	26	284	6	585	2,708	2	0	2	2
5:00 PM	0	18	9	36	0	19	17	1	2	28	170	22	4	13	294	4	637	2,871	2	0	0	2
5:15 PM	0	23	16	52	0	13	10	1	4	45	156	25	6	33	343	12	739	2,957	1	0	2	2
5:30 PM	0	13	10	31	0	19	13	1	3	43	174	26	3	31	372	8	747	2,922	1	4	2	5
5:45 PM	0	19	17	47	1	23	19	1	2	41	150	44	8	22	345	9	748	2,816	1	1	2	7
6:00 PM	0	14	10	45	0	17	11	1	7	49	158	32	6	14	353	6	723	2,725	6	2	10	8
6:15 PM	0	19	12	37	0	9	15	0	3	23	153	23	4	17	379	10	704		4	2	5	3
6:30 PM	0	12	12	30	0	8	13	0	3	36	192	21	10	20	275	9	641		7	3	4	11
6:45 PM	0	10	12	30	0	6	11	0	1	26	193	22	3	20	317	6	657		4	2	2	9
Count Total	0	195	135	398	4	163	152	7	40	396	1,916	297	68	236	3,681	101	7,789		38	17	34	57
Peak Hour	0	69	53	175	1	72	53	4	16	178	638	127	23	100	1,413	35	####		9	7	16	22

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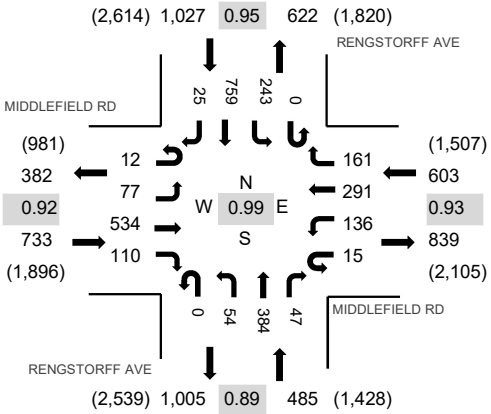
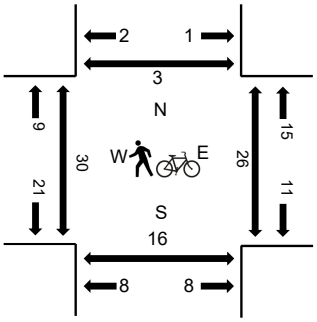
Location: 7 RENGSTORFF AVE & MIDDLEFIELD RD PM
Date and Start Time: Tuesday, September 25, 2018
Peak Hour: 05:15 PM - 06:15 PM
Peak 15-Minutes: 06:00 PM - 06:15 PM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles on Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

Interval Start Time	MIDDLEFIELD RD Eastbound				MIDDLEFIELD RD Westbound				RENGSTORFF AVE Northbound				RENGSTORFF AVE Southbound					Rolling Hour	Pedestrain Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
4:00 PM	3	22	70	18	0	19	32	27	0	10	80	16	0	47	112	5	461	2,075	4	4	14	4
4:15 PM	1	31	76	13	1	23	40	20	0	10	105	13	0	33	135	7	508	2,302	0	1	12	0
4:30 PM	6	14	94	18	1	30	55	31	0	15	88	10	0	45	114	4	525	2,507	4	2	5	2
4:45 PM	2	41	99	19	2	14	68	34	0	11	106	15	0	37	130	3	581	2,692	4	3	4	2
5:00 PM	4	25	137	25	0	30	72	41	0	13	92	15	0	52	175	7	688	2,818	5	4	5	3
5:15 PM	4	21	143	32	0	27	62	44	0	22	117	12	0	52	176	1	713	2,848	6	3	4	0
5:30 PM	2	18	122	24	1	30	77	38	0	19	103	13	0	64	194	5	710	2,826	4	6	3	1
5:45 PM	6	17	125	30	13	39	68	33	0	3	86	10	0	68	203	6	707	2,734	4	6	3	1
6:00 PM	0	21	144	24	1	40	84	46	0	10	78	12	0	59	186	13	718	2,552	8	2	4	1
6:15 PM	3	18	112	25	1	30	89	44	0	6	96	16	0	55	189	7	691		6	7	3	3
6:30 PM	8	19	91	22	1	29	49	30	0	6	95	10	0	58	195	5	618		5	1	6	0
6:45 PM	3	18	110	16	3	20	45	23	0	7	98	10	0	36	133	3	525		8	6	3	2
Count Total	42	265	1,323	266	24	331	741	411	0	132	1,144	152	0	606	1,942	66	7,445		58	45	66	19
Peak Hour	12	77	534	110	15	136	291	161	0	54	384	47	0	243	759	25	####		22	17	14	3

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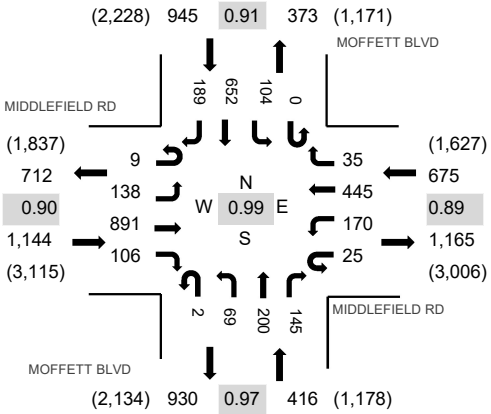
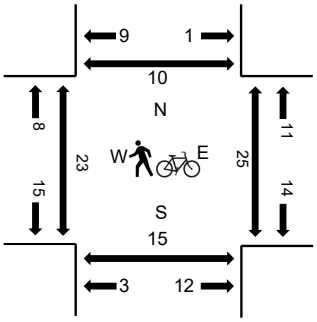
Location: 8 MOFFETT BLVD & MIDDLEFIELD RD PM
Date and Start Time: Tuesday, September 25, 2018
Peak Hour: 05:15 PM - 06:15 PM
Peak 15-Minutes: 05:15 PM - 05:30 PM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles on Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

Interval Start Time	MIDDLEFIELD RD Eastbound				MIDDLEFIELD RD Westbound				MOFFETT BLVD Northbound				MOFFETT BLVD Southbound					Rolling Hour	Pedestrain Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
4:00 PM	1	33	114	29	4	31	71	16	0	5	60	21	0	18	90	40	533	2,301	0	10	2	2
4:15 PM	5	41	141	22	5	24	56	7	0	11	41	15	0	20	73	46	507	2,495	3	5	4	0
4:30 PM	7	49	197	20	3	22	83	14	1	15	50	31	0	25	72	39	628	2,792	1	7	5	1
4:45 PM	2	39	199	35	5	20	71	8	1	17	48	29	0	15	101	43	633	2,960	0	7	2	0
5:00 PM	0	60	250	26	0	43	101	5	0	16	41	36	0	19	86	44	727	3,124	2	8	1	0
5:15 PM	3	46	223	22	4	40	93	8	0	12	43	57	0	30	161	62	804	3,180	7	3	2	2
5:30 PM	4	30	257	18	6	56	121	6	0	22	51	25	0	26	124	50	796	3,078	3	9	4	1
5:45 PM	1	31	215	24	5	48	107	13	1	13	47	32	0	24	198	38	797	2,947	4	8	2	0
6:00 PM	1	31	196	42	10	26	124	8	1	22	59	31	0	24	169	39	783	2,723	6	4	4	0
6:15 PM	4	33	176	23	6	36	91	5	0	29	47	34	0	35	129	54	702		3	8	6	1
6:30 PM	1	40	189	39	6	29	74	7	1	19	60	28	0	26	104	42	665		4	3	4	1
6:45 PM	3	30	140	23	5	29	68	7	0	19	57	30	0	19	95	48	573		2	10	3	0
Count Total	32	463	2,297	323	59	404	1,060	104	5	200	604	369	0	281	1,402	545	8,148		35	82	39	8
Peak Hour	9	138	891	106	25	170	445	35	2	69	200	145	0	104	652	189	####		20	24	12	3

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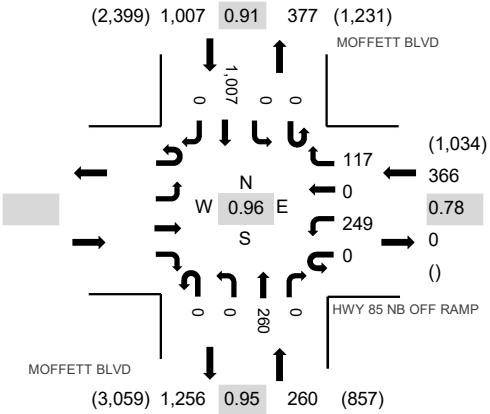
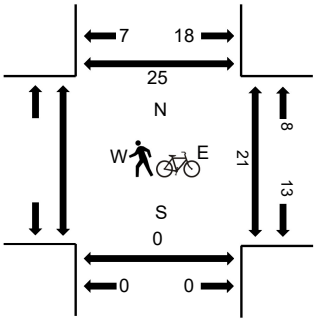
Location: 9 MOFFETT BLVD & HWY 85 NB OFF RAMP PM
Date and Start Time: Tuesday, September 25, 2018
Peak Hour: 05:15 PM - 06:15 PM
Peak 15-Minutes: 05:15 PM - 05:30 PM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles on Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

Interval Start Time	HWY 85 NB OFF RAMP Eastbound				HWY 85 NB OFF RAMP Westbound				MOFFETT BLVD Northbound				MOFFETT BLVD Southbound					Rolling Hour	Pedestrain Crossings		
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
4:00 PM					0	44	0	35	0	0	75	0	0	0	178	0	332	1,304	4	0	0
4:15 PM					0	45	0	19	0	0	80	0	0	0	155	0	299	1,328	4	0	6
4:30 PM					0	48	0	32	0	0	82	0	0	0	187	0	349	1,453	6	0	6
4:45 PM					0	51	0	32	0	0	69	0	0	0	172	0	324	1,498	5	0	1
5:00 PM					0	49	0	36	0	0	80	0	0	0	191	0	356	1,598	5	0	1
5:15 PM					0	81	0	38	0	0	66	0	0	0	239	0	424	1,633	6	0	3
5:30 PM					0	54	0	32	0	0	63	0	0	0	245	0	394	1,558	6	0	2
5:45 PM					0	55	0	27	0	0	66	0	0	0	276	0	424	1,517	3	0	1
6:00 PM					0	59	0	20	0	0	65	0	0	0	247	0	391	1,388	1	0	3
6:15 PM					0	58	0	37	0	0	62	0	0	0	192	0	349		7	0	1
6:30 PM					0	50	0	32	0	0	86	0	0	0	185	0	353		2	0	3
6:45 PM					0	66	0	34	0	0	63	0	0	0	132	0	295		7	0	2
Count Total					0	660	0	374	0	0	857	0	0	0	2,399	0	4,290		56	0	29
Peak Hour					0	249	0	117	0	0	260	0	0	0	1,007	0	####		16	0	9

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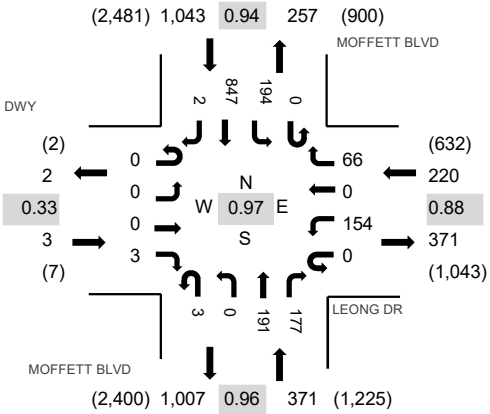
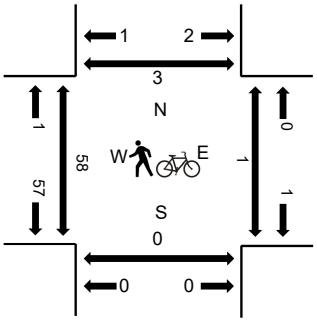
Location: 10 MOFFETT BLVD & LEONG DR PM
Date and Start Time: Tuesday, September 25, 2018
Peak Hour: 05:15 PM - 06:15 PM
Peak 15-Minutes: 05:45 PM - 06:00 PM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles on Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

Interval Start Time	DWY Eastbound				LEONG DR Westbound				MOFFETT BLVD Northbound				MOFFETT BLVD Southbound					Rolling Hour	Pedestrain Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
4:00 PM	0	1	0	0	0	31	0	24	0	0	68	40	0	36	143	0	343	1,351	1	4	0	0
4:15 PM	0	0	0	0	0	29	0	20	2	0	56	47	0	29	132	0	315	1,379	0	2	0	0
4:30 PM	0	0	0	0	1	31	0	27	1	0	63	48	0	32	151	0	354	1,466	0	0	0	0
4:45 PM	0	2	0	1	0	33	0	23	0	0	63	41	0	40	136	0	339	1,517	1	0	0	0
5:00 PM	0	0	0	0	0	23	0	20	0	0	65	48	1	40	174	0	371	1,601	0	0	0	0
5:15 PM	0	0	0	0	0	44	0	19	0	0	47	54	0	43	195	0	402	1,637	0	1	0	0
5:30 PM	0	0	0	0	0	37	0	20	1	0	51	41	0	54	200	1	405	1,579	0	0	0	1
5:45 PM	0	0	0	3	0	38	0	19	1	0	47	41	0	38	235	1	423	1,531	0	0	0	0
6:00 PM	0	0	0	0	0	35	0	8	1	0	46	41	0	59	217	0	407	1,393	1	0	0	1
6:15 PM	0	0	0	0	0	34	0	21	2	0	38	59	0	40	150	0	344		0	0	0	0
6:30 PM	0	0	0	0	0	30	0	18	0	0	65	50	0	39	155	0	357		0	1	0	0
6:45 PM	0	0	0	0	0	28	0	19	2	0	49	47	0	35	105	0	285		1	0	0	1
Count Total	0	3	0	4	1	393	0	238	10	0	658	557	1	485	1,993	2	4,345		4	8	0	3
Peak Hour	0	0	0	3	0	154	0	66	3	0	191	177	0	194	847	2	####		1	1	0	2

All Traffic Data Services Inc.
(303) 216-2439
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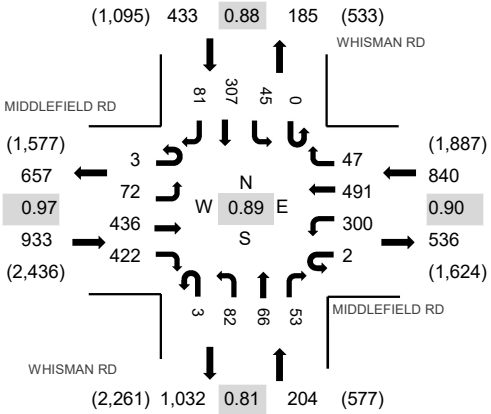
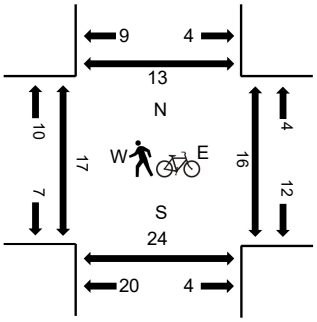
Location: 11 WHISMAN RD & MIDDLEFIELD RD PM
Date and Start Time: Tuesday, September 25, 2018
Peak Hour: 05:00 PM - 06:00 PM
Peak 15-Minutes: 05:30 PM - 05:45 PM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles on Crosswalk



Note: Total study counts contained in parentheses.

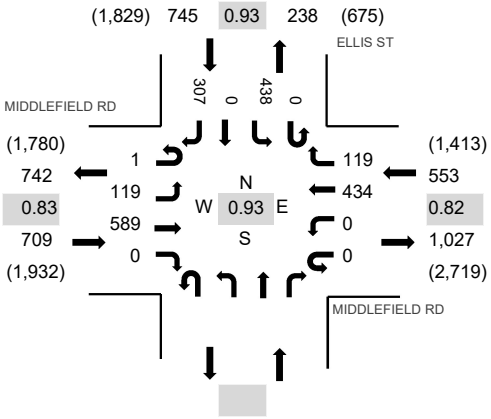
Traffic Counts

Interval Start Time	MIDDLEFIELD RD Eastbound				MIDDLEFIELD RD Westbound				WHISMAN RD Northbound				WHISMAN RD Southbound					Rolling Hour	Pedestrain Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
4:00 PM	0	16	86	50	1	36	62	7	0	26	9	22	0	26	39	20	400	1,821	7	2	6	1
4:15 PM	3	5	103	45	1	34	74	17	1	16	9	13	1	16	54	15	407	1,988	2	4	4	0
4:30 PM	0	18	119	76	2	31	65	13	0	27	14	16	0	21	59	21	482	2,201	4	2	1	1
4:45 PM	1	17	137	86	1	59	77	18	0	23	14	11	0	18	57	13	532	2,396	3	2	3	0
5:00 PM	0	13	125	95	0	44	108	11	0	22	15	13	0	11	88	22	567	2,410	5	2	2	6
5:15 PM	2	26	102	101	0	90	116	15	1	13	25	13	0	15	81	20	620	2,352	7	2	8	1
5:30 PM	0	18	98	129	0	90	136	11	1	31	20	15	0	14	89	25	677	2,223	5	2	3	3
5:45 PM	1	15	111	97	2	76	131	10	1	16	6	12	0	5	49	14	546	1,944	0	9	11	3
6:00 PM	0	15	94	83	1	57	106	10	0	24	14	15	0	9	62	19	509	1,764	4	1	5	0
6:15 PM	1	23	117	67	0	45	87	16	0	20	17	15	0	12	53	18	491		2	6	3	1
6:30 PM	1	19	93	64	0	31	76	14	0	11	17	11	0	8	36	17	398		5	1	0	3
6:45 PM	1	22	97	44	0	24	71	11	0	10	12	6	0	17	36	15	366		2	2	1	0
Count Total	10	207	1,282	937	8	617	1,109	153	4	239	172	162	1	172	703	219	5,995		46	35	47	19
Peak Hour	3	72	436	422	2	300	491	47	3	82	66	53	0	45	307	81	####		17	15	24	13

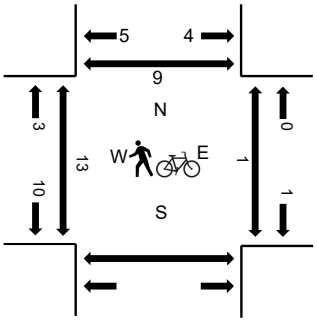
All Traffic Data Services Inc.
(303) 216-2439
www.alltrafficdata.net

Location: 12 ELLIS ST & MIDDLEFIELD RD PM
Date and Start Time: Tuesday, September 25, 2018
Peak Hour: 04:45 PM - 05:45 PM
Peak 15-Minutes: 05:30 PM - 05:45 PM

Peak Hour - All Vehicles



Peak Hour - Pedestrians/Bicycles on Crosswalk



Note: Total study counts contained in parentheses.

Traffic Counts

Interval Start Time	MIDDLEFIELD RD Eastbound				MIDDLEFIELD RD Westbound				Northbound				ELLIS ST Southbound					Rolling Hour	Pedestrain Crossings		
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
4:00 PM	0	17	154	0	0	0	49	31					0	93	0	42	386	1,700	4	2		2
4:15 PM	0	26	150	0	0	0	70	34					0	122	0	36	438	1,819	2	1		4
4:30 PM	0	31	147	0	0	0	68	19					0	94	0	55	414	1,882	1	0		1
4:45 PM	0	29	143	0	0	0	84	28					0	122	0	56	462	2,007	0	0		1
5:00 PM	1	31	194	0	0	0	80	34					0	100	0	65	505	1,970	3	1		0
5:15 PM	0	30	124	0	0	0	124	22					0	121	0	80	501	1,922	8	0		1
5:30 PM	0	29	128	0	0	0	146	35					0	95	0	106	539	1,821	2	0		5
5:45 PM	0	35	106	0	0	0	91	30					0	82	0	81	425	1,628	4	0		2
6:00 PM	1	27	124	0	0	0	103	46					0	87	0	69	457	1,504	0	1		0
6:15 PM	0	22	123	0	0	0	95	28					0	77	0	55	400		0	2		0
6:30 PM	1	24	101	0	0	0	83	32					0	64	0	41	346		1	1		1
6:45 PM	1	18	115	0	0	0	64	17					0	53	0	33	301		0	0		1
Count Total	4	319	1,609	0	0	0	1,057	356					0	1,110	0	719	5,174		25	8		18
Peak Hour	1	119	589	0	0	0	434	119					0	438	0	307	####		13	1		7

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Site Code: 13
Station ID:
TERRA BELLA E.O SHORELINE

Start Time	9/26/2018 Wed	EB Morning	EB Afternoon	Hour Totals Morning	Hour Totals Afternoon	WB Morning	WB Afternoon	Hour Totals Morning	Hour Totals Afternoon	Combined Totals Morning	Combined Totals Afternoon
12:00		0	32			4	45				
12:15		7	32			3	42				
12:30		3	36			5	45				
12:45		2	37	12	137	4	32	16	164	28	301
01:00		2	40			0	49				
01:15		3	30			0	32				
01:30		0	28			5	33				
01:45		3	30	8	128	0	42	5	156	13	284
02:00		2	26			0	37				
02:15		0	20			1	30				
02:30		2	25			1	44				
02:45		0	25	4	96	3	43	5	154	9	250
03:00		2	31			1	35				
03:15		0	25			0	38				
03:30		2	33			1	31				
03:45		1	25	5	114	1	29	3	133	8	247
04:00		3	18			2	38				
04:15		0	16			1	44				
04:30		1	25			5	55				
04:45		1	21	5	80	1	56	9	193	14	273
05:00		7	21			4	50				
05:15		7	21			2	42				
05:30		9	18			8	32				
05:45		14	17	37	77	9	30	23	154	60	231
06:00		19	27			7	45				
06:15		15	22			12	43				
06:30		13	18			17	37				
06:45		21	21	68	88	16	20	52	145	120	233
07:00		19	12			17	35				
07:15		28	12			23	26				
07:30		26	13			21	28				
07:45		29	15	102	52	33	26	94	115	196	167
08:00		20	17			28	17				
08:15		22	13			37	14				
08:30		29	16			56	14				
08:45		34	10	105	56	60	18	181	63	286	119
09:00		34	9			35	13				
09:15		27	8			46	9				
09:30		35	8			42	4				
09:45		33	7	129	32	44	4	167	30	296	62
10:00		23	7			22	14				
10:15		22	4			30	6				
10:30		33	7			30	9				
10:45		24	11	102	29	30	7	112	36	214	65
11:00		36	4			24	6				
11:15		44	5			34	2				
11:30		39	0			33	1				
11:45		42	1	161	10	39	3	130	12	291	22
Total		738	899			797	1355			1535	2254
Percent		45.1%	54.9%			37.0%	63.0%			40.5%	59.5%

All Traffic Data Services, Inc.

www.alltrafficdata.net

Site Code: 13
Station ID:
TERRA BELLA E.O SHORELINE

Start Time	9/27/2018 Thu	EB Morning	EB Afternoon	Hour Totals Morning	Hour Totals Afternoon	WB Morning	WB Afternoon	Hour Totals Morning	Hour Totals Afternoon	Combined Totals Morning	Combined Totals Afternoon
12:00		0	29			4	33				
12:15		7	34			3	52				
12:30		3	31			5	32				
12:45		2	31	12	125	4	45	16	162	28	287
01:00		2	29			0	37				
01:15		3	29			0	29				
01:30		0	29			5	47				
01:45		3	20	8	107	0	23	5	136	13	243
02:00		2	19			0	43				
02:15		0	18			1	24				
02:30		2	23			1	40				
02:45		0	22	4	82	2	22	4	129	8	211
03:00		2	26			1	25				
03:15		0	22			0	61				
03:30		2	28			1	46				
03:45		1	18	5	94	1	27	3	159	8	253
04:00		3	16			2	37				
04:15		0	10			1	12				
04:30		1	13			5	51				
04:45		1	19	5	58	1	32	9	132	14	190
05:00		7	22			4	31				
05:15		7	18			2	17				
05:30		9	19			9	13				
05:45		17	24	40	83	10	22	25	83	65	166
06:00		25	15			7	28				
06:15		15	19			16	19				
06:30		13	12			22	19				
06:45		24	19	77	65	21	13	66	79	143	144
07:00		22	7			20	28				
07:15		32	10			29	13				
07:30		29	27			29	23				
07:45		35	8	118	52	48	10	126	74	244	126
08:00		23	4			42	6				
08:15		28	4			55	11				
08:30		37	10			88	8				
08:45		42	20	130	38	92	4	277	29	407	67
09:00		42	2			53	7				
09:15		33	6			67	3				
09:30		44	1			63	1				
09:45		42	3	161	12	64	15	247	26	408	38
10:00		29	6			32	4				
10:15		25	3			45	6				
10:30		39	6			45	1				
10:45		26	3	119	18	28	3	150	14	269	32
11:00		20	2			31	2				
11:15		35	8			39	5				
11:30		22	0			35	2				
11:45		30	1	107	11	37	1	142	10	249	21
Total		786	745			1070	1033			1856	1778
Percent		51.3%	48.7%			50.9%	49.1%			51.1%	48.9%
Grand Total		1524	1644			1867	2388			3391	4032
Percent		48.1%	51.9%			43.9%	56.1%			45.7%	54.3%
ADT		ADT 3,712		AADT 3,712							

All Traffic Data Services, Inc.

www.alltrafficdata.net

Site Code: 14
Station ID:
LINDA VISTA S.O TERRA BELLA

Start Time	9/26/2018 Wed	NB Morning	NB Afternoon	Hour Totals Morning	Hour Totals Afternoon	SB Morning	SB Afternoon	Hour Totals Morning	Hour Totals Afternoon	Combined Totals Morning	Combined Totals Afternoon
12:00		1	16			0	19				
12:15		2	15			3	11				
12:30		0	20			2	12				
12:45		1	18	4	69	0	8	5	50	9	119
01:00		2	17			0	16				
01:15		1	19			1	14				
01:30		0	16			0	5				
01:45		1	10	4	62	0	13	1	48	5	110
02:00		0	10			1	6				
02:15		0	9			0	12				
02:30		0	10			1	6				
02:45		0	10	0	39	0	12	2	36	2	75
03:00		0	8			0	14				
03:15		0	13			0	10				
03:30		0	15			1	7				
03:45		0	11	0	47	1	11	2	42	2	89
04:00		0	10			0	15				
04:15		0	7			0	8				
04:30		1	9			0	13				
04:45		0	11	1	37	0	12	0	48	1	85
05:00		1	3			0	8				
05:15		4	5			2	12				
05:30		2	9			1	13				
05:45		7	10	14	27	2	12	5	45	19	72
06:00		4	9			1	11				
06:15		7	16			1	12				
06:30		7	11			4	9				
06:45		12	6	30	42	5	9	11	41	41	83
07:00		10	10			3	9				
07:15		10	4			2	8				
07:30		19	3			3	6				
07:45		18	12	57	29	4	5	12	28	69	57
08:00		16	11			6	6				
08:15		32	1			3	3				
08:30		36	4			8	4				
08:45		79	4	163	20	4	8	21	21	184	41
09:00		57	3			6	1				
09:15		42	3			6	2				
09:30		46	1			11	4				
09:45		44	3	189	10	14	6	37	13	226	23
10:00		21	3			7	4				
10:15		25	1			4	3				
10:30		11	1			7	0				
10:45		10	3	67	8	12	5	30	12	97	20
11:00		14	1			9	3				
11:15		15	0			16	1				
11:30		14	0			6	0				
11:45		16	1	59	2	6	2	37	6	96	8
Total		588	392			163	390			751	782
Percent		60.0%	40.0%			29.5%	70.5%			49.0%	51.0%

All Traffic Data Services, Inc.

www.alltrafficdata.net

Site Code: 14
Station ID:
LINDA VISTA S.O TERRA BELLA

Start Time	9/27/2018 Thu	NB Morning	NB Afternoon	Hour Totals Morning	Hour Totals Afternoon	SB Morning	SB Afternoon	Hour Totals Morning	Hour Totals Afternoon	Combined Totals Morning	Combined Totals Afternoon
12:00		1	10			1	13				
12:15		0	24			0	18				
12:30		1	23			1	13				
12:45		1	17	3	74	0	15	2	59	5	133
01:00		0	29			0	17				
01:15		1	15			2	8				
01:30		0	17			1	22				
01:45		0	8	1	69	0	8	3	55	4	124
02:00		2	5			2	8				
02:15		0	9			0	10				
02:30		0	11			0	4				
02:45		0	17	2	42	0	8	2	30	4	72
03:00		0	17			1	12				
03:15		0	21			0	15				
03:30		0	13			0	12				
03:45		0	15	0	66	0	10	1	49	1	115
04:00		0	19			0	9				
04:15		1	7			3	8				
04:30		1	15			0	10				
04:45		1	8	3	49	0	8	3	35	6	84
05:00		1	20			2	12				
05:15		3	2			1	15				
05:30		3	12			2	11				
05:45		6	4	13	38	1	17	6	55	19	93
06:00		11	10			6	23				
06:15		10	5			3	9				
06:30		7	4			7	9				
06:45		8	5	36	24	2	12	18	53	54	77
07:00		12	6			1	9				
07:15		8	3			3	5				
07:30		19	5			4	10				
07:45		52	3	91	17	7	1	15	25	106	42
08:00		27	4			12	5				
08:15		18	0			6	2				
08:30		20	0			4	2				
08:45		33	6	98	10	7	4	29	13	127	23
09:00		39	2			6	3				
09:15		18	1			7	3				
09:30		23	0			5	3				
09:45		26	4	106	7	2	1	20	10	126	17
10:00		6	1			8	2				
10:15		9	0			12	2				
10:30		11	2			4	1				
10:45		13	1	39	4	7	3	31	8	70	12
11:00		18	0			9	0				
11:15		13	2			10	2				
11:30		11	2			9	1				
11:45		16	3	58	7	10	0	38	3	96	10
Total		450	407			168	395			618	802
Percent		52.5%	47.5%			29.8%	70.2%			43.5%	56.5%
Grand Total		1038	799			331	785			1369	1584
Percent		56.5%	43.5%			29.7%	70.3%			46.4%	53.6%
ADT		ADT 1,476		AADT 1,476							

Appendix B

Volume Summary Tables

Intersection Number: 1
Traffix Node Number: 1
Intersection Name: Shoreline Boulevard & Pear Avenue
Peak Hour: AM
Count Date: 09/25/18
Scenario: Residential & Retail
Growth Factor Per Year: 2%

Date of Analysis: 11/15/18
Near Term Buildout: 0
Cumulative: 5

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	1	331	91	56	3	59	288	2036	31	75	7	0	2978
check	1	331	91	56	3	59	288	2036	31	75	7	0	
Approved Project Trips													
Approved Projects	0	78	6	1	0	0	108	385	0	0	0	0	578
Trips by Existing Building	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildout Growth	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	78	6	1	0	0	108	385	0	0	0	0	578
Background Conditions	1	409	97	57	3	59	396	2421	31	75	7	0	3556
check	1	409	97	57	3	59	396	2421	31	75	7	0	
Proposed Project Trips													
Proj Trips (Under Existing Condition)	0	7	0	0	0	0	0	10	0	0	0	0	17
Proj Trips (with Future Improv)	0	7	0	0	0	0	0	10	0	0	0	0	17
Background+Project Conditions	1	416	97	57	3	59	396	2431	31	75	7	0	3573
check	1	416	97	57	3	59	396	2431	31	75	7	0	
Existing+Project Conditions	1	338	91	56	3	59	288	2046	31	75	7	0	2995
check	1	338	91	56	3	59	288	2046	31	75	7	0	
Pending Project Trips													
Pending Projects	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative Growth	0	34	9	6	0	6	30	212	3	8	1	0	310
Total	0	34	9	6	0	6	30	212	3	8	1	0	310
Cumulative w/o Conditions	1	443	106	63	3	65	426	2633	34	83	8	0	3866
check	1	443	106	63	3	65	426	2633	34	83	8	0	
Cumulative+Project Conditions	1	450	106	63	3	65	426	2643	34	83	8	0	3883
check	1	450	106	63	3	65	426	2643	34	83	8	0	

Intersection Number: 2
Traffix Node Number: 2
Intersection Name: Shoreline Boulevard & US 101 Northbound Off-Ramp
Peak Hour: AM
Count Date: 09/25/18
Scenario: Residential & Retail
Growth Factor Per Year: 2%

Date of Analysis: 11/15/18
Near Term Buildout: 0
Five Year Cumulative: 5

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	54	392	0	1275	13	400	0	1171	0	110	45	12	3472
check	54	392	0	1275	13	400	0	1171	0	110	45	12	
Approved Project Trips													
Approved Projects	6	72	0	428	0	8	2	67	0	12	3	0	598
Trips by Existing Building	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildout Growth	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	6	72	0	428	0	8	2	67	0	12	3	0	598
Background Conditions	60	464	0	1703	13	408	2	1238	0	122	48	12	4070
check	60	464	0	1703	13	408	2	1238	0	122	48	12	
Proposed Project Trips													
Proj Trips (Under Existing Condition)	0	7	0	0	0	6	0	10	0	0	0	0	23
Proj Trips (with Future Improv)	0	7	0	0	0	6	0	10	0	0	0	0	23
Background+Project Conditions	60	471	0	1703	13	414	2	1248	0	122	48	12	4093
check	60	471	0	1703	13	414	2	1248	0	122	48	12	
Existing+Project Conditions	54	399	0	1275	13	406	0	1181	0	110	45	12	3495
check	54	399	0	1275	13	406	0	1181	0	110	45	12	
Pending Project Trips													
Pending Projects	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative Growth	6	41	0	133	1	42	0	122	0	11	5	1	361
Total	6	41	0	133	1	42	0	122	0	11	5	1	361
Cumulative w/o Conditions	66	505	0	1836	14	450	2	1360	0	133	53	13	4431
check	66	505	0	1836	14	450	2	1360	0	133	53	13	
Cumulative+Project Conditions	66	512	0	1836	14	456	2	1370	0	133	53	13	4454
check	66	512	0	1836	14	456	2	1370	0	133	53	13	

Intersection Number: 3
Traffix Node Number: 3
Intersection Name: Shoreline Boulevard & US 101 Southbound Off-Ramp
Peak Hour: AM
Date of Analysis: 11/15/18
Count Date: 09/25/18
Scenario: Residential & Retail
Growth Factor Per Year: 2%
Near Term Buildout: 0
Five Year Cumulative: 5

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	288	626	0	0	0	0	264	1347	28	361	0	246	3160
check	288	626	0	0	0	0	264	1347	28	361	0	246	
Approved Project Trips													
Approved Projects	78	15	0	0	0	0	1	42	0	13	0	33	182
Trips by Existing Building	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildout Growth	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	78	15	0	0	0	0	1	42	0	13	0	33	182
Background Conditions b/f Adjustment	366	641	0	0	0	0	265	1389	28	374	0	279	3342
Adjustment for Removing SR 85 SB On-ramp									-28				
Background Conditions	366	641	0	0	0	0	265	1389	0	374	0	279	3314
check	366	641	0	0	0	0	265	1389	0	374	0	279	
Proposed Project Trips													
Proj Trips (Under Existing Condition)	0	12	0	0	0	0	0	29	12	10	0	0	63
Proj Trips (with Future Improv)	0	12	0	0	0	0	0	29	0	10	0	0	51
Background+Project Conditions	366	653	0	0	0	0	265	1418	0	384	0	279	3365
check	366	653	0	0	0	0	265	1418	0	384	0	279	
Existing+Project Conditions	288	638	0	0	0	0	264	1376	40	371	0	246	3223
check	288	638	0	0	0	0	264	1376	40	371	0	246	
Pending Project Trips													
Pending Projects	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative Growth	30	65	0	0	0	0	27	140	0	38	0	26	326
Total	30	65	0	0	0	0	27	140	0	38	0	26	326
Cumulative w/o Conditions	396	706	0	0	0	0	292	1529	0	412	0	305	3640
check	396	706	0	0	0	0	292	1529	0	412	0	305	
Cumulative+Project Conditions	396	718	0	0	0	0	292	1558	0	422	0	305	3691
check	396	718	0	0	0	0	292	1558	0	422	0	305	

Intersection Number: 4
Traffix Node Number: 4
Intersection Name: Shoreline Boulevard & Terra Bella Avenue
Peak Hour: AM
Date of Analysis: 11/15/18
Count Date: 09/25/18
Scenario: Residential & Retail
Growth Factor Per Year: 2%
Near Term Buildout: 0
Five Year Cumulative: 5

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	181	554	223	149	19	25	26	1335	4	6	14	60	2596
check	181	554	223	149	19	25	26	1335	4	6	14	60	
Approved Project Trips													
Approved Projects	0	9	18	3	0	3	17	42	0	0	0	0	92
Trips by Existing Building	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildout Growth	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	9	18	3	0	3	17	42	0	0	0	0	92
Background Conditions b/f Adjustment	181	563	241	152	19	28	43	1377	4	6	14	60	2688
djustment for Removing SR 85 SB On-ramp & Reversible Bus Lane				-3				-24	50			-1	
Background Conditions	181	563	241	149	19	28	43	1353	54	6	14	59	2710
check	181	563	241	149	19	28	43	1353	54	6	14	59	
Proposed Project Trips													
Proj Trips (Under Existing Condition)	0	0	22	58	4	63	54	0	0	0	3	0	204
Proj Trips (with Future Improv)	0	0	22	47	4	63	54	0	0	0	3	0	193
Retail Passby Trips		-15	15	28		15	28	-28					
Background+Project Conditions	181	548	278	224	23	106	125	1325	54	6	17	59	2946
check	181	548	278	224	23	106	125	1325	54	6	17	59	
Existing+Project Conditions	181	539	260	235	23	103	108	1307	4	6	17	60	2843
check	181	539	260	235	23	103	108	1307	4	6	17	60	
Pending Project Trips													
Pending Projects	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative Growth	19	58	23	16	2	3	3	139	0	1	1	6	270
Total	19	58	23	16	2	3	3	139	0	1	1	6	270
Cumulative w/o Conditions	200	621	264	165	21	31	46	1492	54	7	15	65	2980
check	200	621	264	165	21	31	46	1492	54	7	15	65	
Cumulative+Project Conditions	200	606	301	240	25	109	128	1464	54	7	18	65	3216
check	200	606	301	240	25	109	128	1464	54	7	18	65	

Intersection Number: 5
Traffix Node Number: 5
Intersection Name: Shoreline Boulevard & Middlefield Road
Peak Hour: AM
Date of Analysis: 11/15/18
Count Date: 09/25/18
Scenario: Residential & Retail
Growth Factor Per Year: 2%
Near Term Buildout: 0
Five Year Cumulative: 5

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	90	361	48	315	603	102	127	1012	128	130	332	140	3388
check	90	361	48	315	603	102	127	1012	128	130	332	140	
Approved Project Trips													
Approved Projects	2	7	3	16	25	0	2	29	2	0	73	14	173
Trips by Existing Building	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildout Growth	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	2	7	3	16	25	0	2	29	2	0	73	14	173
Background Conditions b/f Adjustment	92	368	51	331	628	102	129	1041	130	130	405	154	3561
Adjustment for Reversible Bus Lane			50										
Background Conditions	92	368	101	331	628	102	129	1041	130	130	405	154	3611
check	92	368	101	331	628	102	129	1041	130	130	405	154	
Proposed Project Trips													
Proj Trips (Under Existing Condition)	21	42	0	0	0	0	0	35	0	0	0	18	116
Proj Trips (with Future Improv)	21	42	0	0	0	0	0	35	0	0	0	18	116
Background+Project Conditions	113	410	101	331	628	102	129	1076	130	130	405	172	3727
check	113	410	101	331	628	102	129	1076	130	130	405	172	
Existing+Project Conditions	111	403	48	315	603	102	127	1047	128	130	332	158	3504
check	111	403	48	315	603	102	127	1047	128	130	332	158	
Pending Project Trips													
Pending Projects	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative Growth	9	38	5	33	63	11	13	105	13	14	35	15	353
Total	9	38	5	33	63	11	13	105	13	14	35	15	353
Cumulative w/o Conditions	101	406	106	364	691	113	142	1146	143	144	440	169	3964
check	101	406	106	364	691	113	142	1146	143	144	440	169	
Cumulative+Project Conditions	122	448	106	364	691	113	142	1181	143	144	440	187	4080
check	122	448	106	364	691	113	142	1181	143	144	440	187	

Intersection Number: 6
Traffix Node Number: 6
Intersection Name: Shoreline Boulevard & Montecito Avenue
Peak Hour: AM
Date of Analysis: 11/15/18
Count Date: 09/25/18
Scenario: Residential & Retail
Growth Factor Per Year: 2%
Near Term Buildout: 0
Five Year Cumulative: 5

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	18	582	45	6	73	58	105	1128	156	149	48	80	2448
check	18	582	45	6	73	58	105	1128	156	149	48	80	
Approved Project Trips													
Approved Projects	0	7	0	0	0	0	0	33	2	0	0	0	42
Trips by Existing Building	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildout Growth	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	7	0	0	0	0	0	33	2	0	0	0	42
Background Conditions	18	589	45	6	73	58	105	1161	158	149	48	80	2490
check	18	589	45	6	73	58	105	1161	158	149	48	80	
Proposed Project Trips													
Proj Trips (Under Existing Condition)	11	29	2	0	0	0	0	23	0	0	0	10	75
Proj Trips (with Future Improv)	11	29	2	0	0	0	0	23	0	0	0	10	75
Background+Project Conditions	29	618	47	6	73	58	105	1184	158	149	48	90	2565
check	29	618	47	6	73	58	105	1184	158	149	48	90	
Existing+Project Conditions	29	611	47	6	73	58	105	1151	156	149	48	90	2523
check	29	611	47	6	73	58	105	1151	156	149	48	90	
Pending Project Trips													
Pending Projects	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative Growth	2	61	5	1	8	6	11	117	16	16	5	8	255
Total	2	61	5	1	8	6	11	117	16	16	5	8	255
Cumulative w/o Conditions	20	650	50	7	81	64	116	1278	174	165	53	88	2745
check	20	650	50	7	81	64	116	1278	174	165	53	88	
Cumulative+Project Conditions	31	679	52	7	81	64	116	1301	174	165	53	98	2820
check	31	679	52	7	81	64	116	1301	174	165	53	98	

Intersection Number: 7
Traffix Node Number: 7
Intersection Name: Rengstorff Avenue & Middlefield Road
Peak Hour: AM
Count Date: 09/25/18
Scenario: Residential & Retail
Growth Factor Per Year: 2%

Date of Analysis: 11/15/18
Near Term Buildout: 0
Five Year Cumulative: 5

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	15	288	51	171	277	107	47	802	90	45	197	123	2213
check	15	288	51	171	277	107	47	802	90	45	197	123	
Approved Project Trips													
Approved Projects	1	3	1	6	17	1	0	18	0	0	50	7	104
Trips by Existing Building	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildout Growth	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1	3	1	6	17	1	0	18	0	0	50	7	104
Background Conditions	16	291	52	177	294	108	47	820	90	45	247	130	2317
check	16	291	52	177	294	108	47	820	90	45	247	130	2317
Proposed Project Trips													
Proj Trips (Under Existing Condition)	0	0	5	6	10	5	5	0	0	0	8	0	39
Proj Trips (with Future Improv)	0	0	5	6	10	5	5	0	0	0	8	0	39
Background+Project Conditions	16	291	57	183	304	113	52	820	90	45	255	130	2356
check	16	291	57	183	304	113	52	820	90	45	255	130	
Existing+Project Conditions	15	288	56	177	287	112	52	802	90	45	205	123	2252
check	15	288	56	177	287	112	52	802	90	45	205	123	
Pending Project Trips													
Pending Projects	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative Growth	2	30	5	18	29	11	5	83	9	5	21	13	230
Total	2	30	5	18	29	11	5	83	9	5	21	13	230
Cumulative w/o Conditions	18	321	57	195	323	119	52	903	99	50	268	143	2547
check	18	321	57	195	323	119	52	903	99	50	268	143	
Cumulative+Project Conditions	18	321	62	201	333	124	57	903	99	50	276	143	2586
check	18	321	62	201	333	124	57	903	99	50	276	143	

Intersection Number: 8
Traffix Node Number: 8
Intersection Name: Moffett Boulevard & Middlefield Road
Peak Hour: AM
Count Date: 09/25/18
Scenario: Residential & Retail
Growth Factor Per Year: 2%

Date of Analysis: 11/15/18
Near Term Buildout: 0
Five Year Cumulative: 5

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	339	241	64	91	862	171	132	377	102	35	364	178	2956
check	339	241	64	91	862	171	132	377	102	35	364	178	
Approved Project Trips													
Approved Projects	11	25	11	60	36	0	0	139	0	0	37	41	360
Trips by Existing Building	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildout Growth	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	11	25	11	60	36	0	0	139	0	0	37	41	360
Background Conditions b/f Adjustment	350	266	75	151	898	171	132	516	102	35	401	219	3316
Adjustment for Removing SR 85 SB On-ramp												28	
Background Conditions	350	266	75	151	898	171	132	516	102	35	401	247	3344
check	350	266	75	151	898	171	132	516	102	35	401	247	
Proposed Project Trips													
Proj Trips (Under Existing Condition)	12	0	0	0	20	0	0	0	6	9	25	1	73
Proj Trips (with Future Improv)	12	0	0	0	20	0	0	0	6	9	25	13	85
Background+Project Conditions	362	266	75	151	918	171	132	516	108	44	426	260	3429
check	362	266	75	151	918	171	132	516	108	44	426	260	
Existing+Project Conditions	351	241	64	91	882	171	132	377	108	44	389	179	3029
check	351	241	64	91	882	171	132	377	108	44	389	179	
Pending Project Trips													
Pending Projects	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative Growth	35	25	7	9	90	18	14	39	11	4	38	21	311
Total	35	25	7	9	90	18	14	39	11	4	38	21	311
Cumulative w/o Conditions	385	291	82	160	988	189	146	555	113	39	439	268	3655
check	385	291	82	160	988	189	146	555	113	39	439	268	
Cumulative+Project Conditions	397	291	82	160	1008	189	146	555	119	48	464	281	3740
check	397	291	82	160	1008	189	146	555	119	48	464	281	

Intersection Number: 9
Traffix Node Number: 9
Intersection Name: Moffett Boulevard & SR 85 Northbound Off-Ramp
Peak Hour: AM
Date of Analysis: 11/15/18
Count Date: 09/25/18
Scenario: Residential & Retail
Growth Factor Per Year: 2%
Near Term Buildout: 0
Five Year Cumulative: 5

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	0	375	0	379	0	372	0	479	0	0	0	0	1605
check	0	375	0	379	0	372	0	479	0	0	0	0	
Approved Project Trips													
Approved Projects	0	87	0	247	0	4	0	238	0	0	0	0	576
Trips by Existing Building	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildout Growth	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	87	0	247	0	4	0	238	0	0	0	0	576
Background Conditions	0	462	0	626	0	376	0	717	0	0	0	0	2181
check	0	462	0	626	0	376	0	717	0	0	0	0	
Proposed Project Trips													
Proj Trips (Under Existing Condition)	0	7	0	0	0	5	0	1	0	0	0	0	13
Proj Trips (with Future Improv)	0	7	0	0	0	5	0	1	0	0	0	0	13
Background+Project Conditions	0	469	0	626	0	381	0	718	0	0	0	0	2194
check	0	469	0	626	0	381	0	718	0	0	0	0	
Existing+Project Conditions	0	382	0	379	0	377	0	480	0	0	0	0	1618
check	0	382	0	379	0	377	0	480	0	0	0	0	
Pending Project Trips													
Pending Projects	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative Growth	0	39	0	39	0	39	0	50	0	0	0	0	167
Total	0	39	0	39	0	39	0	50	0	0	0	0	167
Cumulative w/o Conditions	0	501	0	665	0	415	0	767	0	0	0	0	2348
check	0	501	0	665	0	415	0	767	0	0	0	0	
Cumulative+Project Conditions	0	508	0	665	0	420	0	768	0	0	0	0	2361
check	0	508	0	665	0	420	0	768	0	0	0	0	

Intersection Number: 10
Traffix Node Number: 10
Intersection Name: Moffett Boulevard & Leong Drive
Peak Hour: AM
Date of Analysis: 11/15/18
Count Date: 09/25/18
Scenario: Residential & Retail
Growth Factor Per Year: 2%
Near Term Buildout: 0
Five Year Cumulative: 5

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	6	220	52	186	2	152	173	669	5	3	2	5	1475
check	6	220	52	186	2	152	173	669	5	3	2	5	
Approved Project Trips													
Approved Projects	151	44	12	9	29	6	8	343	134	37	8	42	823
Trips by Existing Building	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildout Growth	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	151	44	12	9	29	6	8	343	134	37	8	42	823
Background Conditions	157	264	64	195	31	158	181	1012	139	40	10	47	2298
check	157	264	64	195	31	158	181	1012	139	40	10	47	
Proposed Project Trips													
Proj Trips (Under Existing Condition)	0	7	0	0	0	0	0	1	0	0	0	0	8
Proj Trips (with Future Improv)	0	7	0	0	0	0	0	1	0	0	0	0	8
Background+Project Conditions	157	271	64	195	31	158	181	1013	139	40	10	47	2306
check	157	271	64	195	31	158	181	1013	139	40	10	47	
Existing+Project Conditions	6	227	52	186	2	152	173	670	5	3	2	5	1483
check	6	227	52	186	2	152	173	670	5	3	2	5	
Pending Project Trips													
Pending Projects	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative Growth	1	23	5	19	0	16	18	70	1	0	0	1	154
Total	1	23	5	19	0	16	18	70	1	0	0	1	154
Cumulative w/o Conditions	158	287	69	214	31	174	199	1082	140	40	10	48	2452
check	158	287	69	214	31	174	199	1082	140	40	10	48	
Cumulative+Project Conditions	158	294	69	214	31	174	199	1083	140	40	10	48	2460
check	158	294	69	214	31	174	199	1083	140	40	10	48	

Intersection Number: 11
Traffix Node Number: 11
Intersection Name: Whisman Road & Middlefield Road
Peak Hour: AM
Count Date: 09/25/18
Scenario: Residential & Retail
Growth Factor Per Year: 2%

Date of Analysis: 11/15/18
Near Term Buildout: 0
Five Year Cumulative: 5

Scenario:	North Approach RT	North Approach TH	North Approach LT	East Approach RT	East Approach TH	East Approach LT	South Approach RT	South Approach TH	South Approach LT	West Approach RT	West Approach TH	West Approach LT	*Total*
Existing Conditions	75	106	47	127	481	70	188	182	181	109	374	83	2023
check	75	106	47	127	481	70	188	182	181	109	374	83	
Approved Project Trips													
Approved Projects	11	3	23	108	75	1	1	23	0	0	15	27	287
Trips by Existing Building	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildout Growth	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	11	3	23	108	75	1	1	23	0	0	15	27	287
Background Conditions	86	109	70	235	556	71	189	205	181	109	389	110	2310
check	86	109	70	235	556	71	189	205	181	109	389	110	
Proposed Project Trips													
Proj Trips (Under Existing Condition)	5	0	0	0	7	0	0	0	4	4	10	6	36
Proj Trips (with Future Improv)	5	0	0	0	7	0	0	0	4	4	10	6	36
Background+Project Conditions	91	109	70	235	563	71	189	205	185	113	399	116	2346
check	91	109	70	235	563	71	189	205	185	113	399	116	
Existing+Project Conditions	80	106	47	127	488	70	188	182	185	113	384	89	2059
check	80	106	47	127	488	70	188	182	185	113	384	89	
Pending Project Trips													
Pending Projects	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative Growth	8	11	5	13	50	7	20	19	19	11	39	9	211
Total	8	11	5	13	50	7	20	19	19	11	39	9	211
Cumulative w/o Conditions	94	120	75	248	606	78	209	224	200	120	428	119	2521
check	94	120	75	248	606	78	209	224	200	120	428	119	
Cumulative+Project Conditions	99	120	75	248	613	78	209	224	204	124	438	125	2557
check	99	120	75	248	613	78	209	224	204	124	438	125	

Intersection Number: 12
Traffix Node Number: 12
Intersection Name: Ellis Street & Middlefield Road
Peak Hour: AM
Count Date: 09/25/18
Scenario: Residential & Retail
Growth Factor Per Year: 2%

Date of Analysis: 11/15/18
Near Term Buildout: 0
Five Year Cumulative: 5

Scenario:	North Approach RT	North Approach TH	North Approach LT	East Approach RT	East Approach TH	East Approach LT	South Approach RT	South Approach TH	South Approach LT	West Approach RT	West Approach TH	West Approach LT	*Total*
Existing Conditions	132	0	132	541	621	0	0	0	0	0	410	251	2087
check	132	0	132	541	621	0	0	0	0	0	410	251	
Approved Project Trips													
Approved Projects	2	0	-25	75	181	0	0	0	0	0	23	15	271
Trips by Existing Building	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildout Growth	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	2	0	-25	75	181	0	0	0	0	0	23	15	271
Background Conditions	134	0	107	616	802	0	0	0	0	0	433	266	2358
check	134	0	107	616	802	0	0	0	0	0	433	266	
Proposed Project Trips													
Proj Trips (Under Existing Condition)	0	0	0	0	6	0	0	0	0	0	8	1	15
Proj Trips (with Future Improv)	0	0	0	0	6	0	0	0	0	0	8	1	15
Background+Project Conditions	134	0	107	616	808	0	0	0	0	0	441	267	2373
check	134	0	107	616	808	0	0	0	0	0	441	267	
Existing+Project Conditions	132	0	132	541	627	0	0	0	0	0	418	252	2102
check	132	0	132	541	627	0	0	0	0	0	418	252	
Pending Project Trips													
Pending Projects	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative Growth	14	0	14	56	65	0	0	0	0	0	43	26	217
Total	14	0	14	56	65	0	0	0	0	0	43	26	217
Cumulative w/o Conditions	148	0	121	672	867	0	0	0	0	0	476	292	2575
check	148	0	121	672	867	0	0	0	0	0	476	292	
Cumulative+Project Conditions	148	0	121	672	873	0	0	0	0	0	484	293	2590
check	148	0	121	672	873	0	0	0	0	0	484	293	

Intersection Number: 1
Traffix Node Number: 1
Intersection NPMe: Shoreline Boulevard / Pear Avenue
Peak Hour: PM
Date of Analysis: 11/15/18
Count Date: 09/25/18
Scenario: Residential & Retail
Growth Factor Per Year: 2%
Near Term Buildout: 0
Five Year Cumulative: 5

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	8	1352	162	38	8	127	179	417	112	241	17	2	2663
check	8	1352	162	38	8	127	179	417	112	241	17	2	
Approved Project Trips													
Approved Project 1	0	349	0	5	0	0	3	118	0	0	0	0	475
Trips by Existing Building	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildout Growth	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	349	0	5	0	0	3	118	0	0	0	0	475
Background Conditions	8	1701	162	43	8	127	182	535	112	241	17	2	3138
check	8	1701	162	43	8	127	182	535	112	241	17	2	
Proposed Project Trips													
Proj Trips (Under Existing Condition)	0	7	0	0	0	0	0	5	0	0	0	0	12
Proj Trips (with Future Improv)	0	7	0	0	0	0	0	5	0	0	0	0	12
Background+Project Conditions	8	1708	162	43	8	127	182	540	112	241	17	2	3150
check	8	1708	162	43	8	127	182	540	112	241	17	2	
Existing+Project Conditions	8	1359	162	38	8	127	179	422	112	241	17	2	2675
check	8	1359	162	38	8	127	179	422	112	241	17	2	
Pending Project Trips													
Pending Projects	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative Growth	1	141	17	4	1	13	19	43	12	25	2	0	277
Total	1	141	17	4	1	13	19	43	12	25	2	0	277
Cumulative w/o Conditions	9	1842	179	47	9	140	201	578	124	266	19	2	3415
check	9	1842	179	47	9	140	201	578	124	266	19	2	
Cumulative+Project Conditions	9	1849	179	47	9	140	201	583	124	266	19	2	3427
check	9	1849	179	47	9	140	201	583	124	266	19	2	

Intersection Number: 2
Traffix Node Number: 2
Intersection NPMe: Shoreline Boulevard / US 101 Northbound Off-Ramp
Peak Hour: PM
Date of Analysis: 11/15/18
Count Date: 09/25/18
Scenario: Residential & Retail
Growth Factor Per Year: 2%
Near Term Buildout: 0
Five Year Cumulative: 5

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	175	1960	0	289	0	422	0	288	0	196	76	7	3413
check	175	1960	0	289	0	422	0	288	0	196	76	7	
Approved Project Trips													
Approved Project 1	9	341	0	103	0	5	11	19	0	78	22	0	588
Trips by Existing Building	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildout Growth	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	9	341	0	103	0	5	11	19	0	78	22	0	588
Background Conditions	184	2301	0	392	0	427	11	307	0	274	98	7	4001
check	184	2301	0	392	0	427	11	307	0	274	98	7	
Proposed Project Trips													
Proj Trips (Under Existing Condition)	0	7	0	0	0	24	0	5	0	0	0	0	36
Proj Trips (with Future Improv)	0	7	0	0	0	24	0	5	0	0	0	0	36
Background+Project Conditions	184	2308	0	392	0	451	11	312	0	274	98	7	4037
check	184	2308	0	392	0	451	11	312	0	274	98	7	
Existing+Project Conditions	175	1967	0	289	0	446	0	293	0	196	76	7	3449
check	175	1967	0	289	0	446	0	293	0	196	76	7	
Pending Project Trips													
Pending Projects	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative Growth	18	204	0	30	0	44	0	30	0	20	8	1	355
Total	18	204	0	30	0	44	0	30	0	20	8	1	355
Cumulative w/o Conditions	202	2505	0	422	0	471	11	337	0	294	106	8	4356
check	202	2505	0	422	0	471	11	337	0	294	106	8	
Cumulative+Project Conditions	202	2512	0	422	0	495	11	342	0	294	106	8	4392
check	202	2512	0	422	0	495	11	342	0	294	106	8	

Intersection Number: 3
Traffix Node Number: 3
Intersection NPMe: Shoreline Boulevard — US 101 Southbound Off-Ramp
Peak Hour: PM — Date of Analysis: 11/15/18
Count Date: 09/25/18
Scenario: Residential & Retail
Growth Factor Per Year: 2% — Near Term Buildout: 0
Five Year Cumulative: 5

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	1324	1256	0	0	0	0	222	527	71	363	0	79	3842
check	1324	1256	0	0	0	0	222	527	71	363	0	79	
Approved Project Trips													
Approved Project 1	388	36	0	0	0	0	6	23	0	6	0	10	469
Trips by Existing Building	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildout Growth	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	388	36	0	0	0	0	6	23	0	6	0	10	469
Background Conditions b/f Adjustment	1712	1292	0	0	0	0	228	550	71	369	0	89	4311
Adjustment for Removing SR 85 SB On-ramp									-71				
Background Conditions	1712	1292	0	0	0	0	228	550	0	369	0	89	4240
check	1712	1292	0	0	0	0	228	550	0	369	0	89	
Proposed Project Trips													
Proj Trips (Under Existing Condition)	0	31	0	0	0	0	0	15	6	16	0	0	68
Proj Trips (with Future Improv)	0	31	0	0	0	0	0	15	0	16	0	0	62
Background+Project Conditions	1712	1323	0	0	0	0	228	565	0	385	0	89	4302
check	1712	1323	0	0	0	0	228	565	0	385	0	89	
Existing+Project Conditions	1324	1287	0	0	0	0	222	542	77	379	0	79	3910
check	1324	1287	0	0	0	0	222	542	77	379	0	79	
Pending Project Trips													
Pending Projects	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative Growth	138	131	0	0	0	0	23	55	0	38	0	8	392
Total	138	131	0	0	0	0	23	55	0	38	0	8	392
Cumulative w/o Conditions	1850	1423	0	0	0	0	251	605	0	407	0	97	4632
check	1850	1423	0	0	0	0	251	605	0	407	0	97	
Cumulative+Project Conditions	1850	1454	0	0	0	0	251	620	0	423	0	97	4694
check	1850	1454	0	0	0	0	251	620	0	423	0	97	

Intersection Number: 4
Traffix Node Number: 4
Intersection NPMe: Shoreline Boulevard — Terra Bella Avenue
Peak Hour: PM — Date of Analysis: 11/15/18
Count Date: 09/25/18
Scenario: Residential & Retail
Growth Factor Per Year: 2% — Near Term Buildout: 0
Five Year Cumulative: 5

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	51	1473	42	126	14	54	30	543	6	48	21	145	2553
check	51	1473	42	126	14	54	30	543	6	48	21	145	
Approved Project Trips													
Approved Project 1	0	39	4	17	0	16	3	13	0	0	0	0	92
Trips by Existing Building	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildout Growth	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	39	4	17	0	16	3	13	0	0	0	0	92
Background Conditions b/f Adjustment	51	1512	46	143	14	70	33	556	6	48	21	145	2645
ving SR 85 SB On-ramp & Reversible Bus Lane				-12				-47	50			-12	
Background Conditions	51	1512	46	131	14	70	33	509	56	48	21	133	2624
check	51	1512	46	131	14	70	33	509	56	48	21	133	
Proposed Project Trips													
Proj Trips (Under Existing Condition)	0	0	47	31	2	25	30	0	0	0	2	0	137
Proj Trips (with Future Improv)	0	0	47	25	2	25	30	0	0	0	2	0	131
Retail Passby Trips		-9	9	5		9	5	-5					
Background+Project Conditions	51	1503	102	161	16	104	68	504	56	48	23	133	2769
check	51	1503	102	161	16	104	68	504	56	48	23	133	
Existing+Project Conditions	51	1464	98	162	16	88	65	538	6	48	23	145	2704
check	51	1464	98	162	16	88	65	538	6	48	23	145	
Pending Project Trips													
Pending Projects	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative Growth	5	153	4	13	1	6	3	57	1	5	2	15	266
Total	5	153	4	13	1	6	3	57	1	5	2	15	266
Cumulative w/o Conditions	56	1665	50	144	15	76	36	566	57	53	23	148	2890
check	56	1665	50	144	15	76	36	566	57	53	23	148	
Cumulative+Project Conditions	56	1656	106	174	17	110	71	561	57	53	25	148	3035
check	56	1656	106	174	17	110	71	561	57	53	25	148	

Intersection Number: 5
Traffix Node Number: 5
Intersection NPMe: Shoreline Boulevard / Middlefield Road
Peak Hour: PM
Count Date: 09/25/18
Scenario: Residential & Retail
Growth Factor Per Year: 2%
Date of Analysis: 11/15/18
Near Term Buildout: 0
Five Year Cumulative: 5

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	82	1111	368	53	413	179	207	442	147	274	619	81	3976
check	82	1111	368	53	413	179	207	442	147	274	619	81	
Approved Project Trips													
Approved Project 1	12	28	10	3	69	2	1	9	1	2	26	4	167
Trips by Existing Building	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildout Growth	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	12	28	10	3	69	2	1	9	1	2	26	4	167
Background Conditions b/f Adjustment	94	1139	378	56	482	181	208	451	148	276	645	85	4143
Adjustment for Reversible Bus Lane			50										
Background Conditions	94	1139	428	56	482	181	208	451	148	276	645	85	4193
check	94	1139	428	56	482	181	208	451	148	276	645	85	
Proposed Project Trips													
Proj Trips (Under Existing Condition)	8	17	0	0	0	0	0	21	0	0	0	10	56
Proj Trips (with Future Improv)	8	17	0	0	0	0	0	21	0	0	0	10	56
Background+Project Conditions	102	1156	428	56	482	181	208	472	148	276	645	95	4249
check	102	1156	428	56	482	181	208	472	148	276	645	95	
Existing+Project Conditions	90	1128	368	53	413	179	207	463	147	274	619	91	4032
check	90	1128	368	53	413	179	207	463	147	274	619	91	
Pending Project Trips													
Pending Projects	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative Growth	9	116	38	6	43	19	22	46	15	29	64	8	414
Total	9	116	38	6	43	19	22	46	15	29	64	8	414
Cumulative w/o Conditions	103	1255	466	62	525	200	230	497	163	305	709	93	4607
check	103	1255	466	62	525	200	230	497	163	305	709	93	
Cumulative+Project Conditions	111	1272	466	62	525	200	230	518	163	305	709	103	4663
check	111	1272	466	62	525	200	230	518	163	305	709	103	

Intersection Number: 6
Traffix Node Number: 6
Intersection NPMe: Shoreline Boulevard / Montecito Avenue
Peak Hour: PM
Count Date: 09/25/18
Scenario: Residential & Retail
Growth Factor Per Year: 2%
Date of Analysis: 11/15/18
Near Term Buildout: 0
Five Year Cumulative: 5

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	35	1413	123	4	53	73	127	638	194	175	53	69	2957
check	35	1413	123	4	53	73	127	638	194	175	53	69	
Approved Project Trips													
Approved Project 1	0	32	0	0	0	0	0	11	7	0	0	0	50
Trips by Existing Building	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildout Growth	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	32	0	0	0	0	0	11	7	0	0	0	50
Background Conditions	35	1445	123	4	53	73	127	649	201	175	53	69	3007
check	35	1445	123	4	53	73	127	649	201	175	53	69	
Proposed Project Trips													
Proj Trips (Under Existing Condition)	4	12	0	0	0	0	0	16	0	0	0	4	36
Proj Trips (with Future Improv)	4	12	0	0	0	0	0	16	0	0	0	4	36
Background+Project Conditions	39	1457	123	4	53	73	127	665	201	175	53	73	3043
check	39	1457	123	4	53	73	127	665	201	175	53	73	
Existing+Project Conditions	39	1425	123	4	53	73	127	654	194	175	53	73	2993
check	39	1425	123	4	53	73	127	654	194	175	53	73	
Pending Project Trips													
Pending Projects	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative Growth	4	147	13	0	6	8	13	66	20	18	6	7	308
Total	4	147	13	0	6	8	13	66	20	18	6	7	308
Cumulative w/o Conditions	39	1592	136	4	59	81	140	715	221	193	59	76	3315
check	39	1592	136	4	59	81	140	715	221	193	59	76	
Cumulative+Project Conditions	43	1604	136	4	59	81	140	731	221	193	59	80	3351
check	43	1604	136	4	59	81	140	731	221	193	59	80	

Intersection Number:	7
Traffix Node Number:	7
Intersection NPMe:	Rengstorff Avenue / Middlefield Road
Peak Hour:	PM
Count Date:	09/25/18
Scenario:	Residential & Retail
Growth Factor Per Year:	2%
Date of Analysis:	11/15/18
Near Term Buildout:	0
Five Year Cumulative:	5

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	25	759	243	161	291	151	47	384	54	110	534	89	2848
check	25	759	243	161	291	151	47	384	54	110	534	89	
Approved Project Trips													
Approved Project 1	6	17	6	1	50	0	0	5	0	0	19	2	106
Trips by Existing Building	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildout Growth	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	6	17	6	1	50	0	0	5	0	0	19	2	106
Background Conditions	31	776	249	162	341	151	47	389	54	110	553	91	2954
check	31	776	249	162	341	151	47	389	54	110	553	91	
Proposed Project Trips													
Proj Trips (Under Existing Condition)	0	0	3	2	4	2	2	0	0	0	5	0	18
Proj Trips (with Future Improv)	0	0	3	2	4	2	2	0	0	0	5	0	18
Background+Project Conditions	31	776	252	164	345	153	49	389	54	110	558	91	2972
check	31	776	252	164	345	153	49	389	54	110	558	91	
Existing+Project Conditions	25	759	246	163	295	153	49	384	54	110	539	89	2866
check	25	759	246	163	295	153	49	384	54	110	539	89	
Pending Project Trips													
Pending Projects	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative Growth	3	79	25	17	30	16	5	40	6	11	56	9	296
Total	3	79	25	17	30	16	5	40	6	11	56	9	296
Cumulative w/o Conditions	34	855	274	179	371	167	52	429	60	121	609	100	3250
check	34	855	274	179	371	167	52	429	60	121	609	100	
Cumulative+Project Conditions	34	855	277	181	375	169	54	429	60	121	614	100	3268
check	34	855	277	181	375	169	54	429	60	121	614	100	

Intersection Number:	8
Traffix Node Number:	8
Intersection NPMe:	Moffett Boulevard / Middlefield Road
Peak Hour:	PM
Count Date:	09/25/18
Scenario:	Residential & Retail
Growth Factor Per Year:	2%
Date of Analysis:	11/15/18
Near Term Buildout:	0
Five Year Cumulative:	5

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	189	652	104	35	445	195	145	200	71	106	891	147	3180
check	189	652	104	35	445	195	145	200	71	106	891	147	
Approved Project Trips													
Approved Project 1	37	129	56	13	41	0	0	30	0	0	36	12	354
Trips by Existing Building	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildout Growth	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	37	129	56	13	41	0	0	30	0	0	36	12	354
Background Conditions b/f Adjustment	226	781	160	48	486	195	145	230	71	106	927	159	3534
Adjustment for Removing SR 85 SB On-ramp												71	
Background Conditions	226	781	160	48	486	195	145	230	71	106	927	230	3605
check	226	781	160	48	486	195	145	230	71	106	927	230	
Proposed Project Trips													
Proj Trips (Under Existing Condition)	1	0	0	0	13	0	0	0	6	4	10	1	35
Proj Trips (with Future Improv)	1	0	0	0	13	0	0	0	6	4	10	7	41
Background+Project Conditions	227	781	160	48	499	195	145	230	77	110	937	237	3646
check	227	781	160	48	499	195	145	230	77	110	937	237	
Existing+Project Conditions	190	652	104	35	458	195	145	200	77	110	901	148	3215
check	190	652	104	35	458	195	145	200	77	110	901	148	
Pending Project Trips													
Pending Projects	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative Growth	20	68	11	4	46	20	15	21	7	11	93	23	338
Total	20	68	11	4	46	20	15	21	7	11	93	23	338
Cumulative w/o Conditions	246	849	171	52	532	215	160	251	78	117	1020	253	3943
check	246	849	171	52	532	215	160	251	78	117	1020	253	
Cumulative+Project Conditions	247	849	171	52	545	215	160	251	84	121	1030	260	3984
check	247	849	171	52	545	215	160	251	84	121	1030	260	

Intersection Number: 9
Traffix Node Number: 9
Intersection NPMe: Moffett Boulevard — SR 85 Northbound Off-Ramp
Peak Hour: PM — Date of Analysis: 11/15/18
Count Date: 09/25/18
Scenario: Residential & Retail
Growth Factor Per Year: 2% — Near Term Buildout: 0
Five Year Cumulative: 5

Scenario:	Movements: North Approach RT	North Approach TH	North Approach LT	East Approach RT	East Approach TH	East Approach LT	South Approach RT	South Approach TH	South Approach LT	West Approach RT	West Approach TH	West Approach LT	Total
Existing Conditions	0	1007	0	117	0	249	0	260	0	0	0	0	1633
check	0	1007	0	117	0	249	0	260	0	0	0	0	
Approved Project Trips													
Approved Project 1	0	462	0	59	0	1	0	51	0	0	0	0	573
Trips by Existing Building	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildout Growth	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	462	0	59	0	1	0	51	0	0	0	0	573
Background Conditions	0	1469	0	176	0	250	0	311	0	0	0	0	2206
check	0	1469	0	176	0	250	0	311	0	0	0	0	
Proposed Project Trips													
Proj Trips (Under Existing Condition)	0	1	0	0	0	0	0	1	0	0	0	0	2
Proj Trips (with Future Improv)	0	1	0	0	0	0	0	1	0	0	0	0	2
Background+Project Conditions	0	1470	0	176	0	250	0	312	0	0	0	0	2208
check	0	1470	0	176	0	250	0	312	0	0	0	0	
Existing+Project Conditions	0	1008	0	117	0	249	0	261	0	0	0	0	1635
check	0	1008	0	117	0	249	0	261	0	0	0	0	
Pending Project Trips													
Pending Projects	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative Growth	0	105	0	12	0	26	0	27	0	0	0	0	170
Total	0	105	0	12	0	26	0	27	0	0	0	0	170
Cumulative w/o Conditions	0	1574	0	188	0	276	0	338	0	0	0	0	2376
check	0	1574	0	188	0	276	0	338	0	0	0	0	
Cumulative+Project Conditions	0	1575	0	188	0	276	0	339	0	0	0	0	2378
check	0	1575	0	188	0	276	0	339	0	0	0	0	

Intersection Number: 10
Traffix Node Number: 10
Intersection NPMe: Moffett Boulevard — Leong Drive
Peak Hour: PM — Date of Analysis: 11/15/18
Count Date: 09/25/18
Scenario: Residential & Retail
Growth Factor Per Year: 2% — Near Term Buildout: 0
Five Year Cumulative: 5

Scenario:	Movements: North Approach RT	North Approach TH	North Approach LT	East Approach RT	East Approach TH	East Approach LT	South Approach RT	South Approach TH	South Approach LT	West Approach RT	West Approach TH	West Approach LT	Total
Existing Conditions	2	847	194	66	0	154	177	191	3	3	0	0	1637
check	2	847	194	66	0	154	177	191	3	3	0	0	
Approved Project Trips													
Approved Project 1	31	358	12	11	6	8	8	74	28	96	21	108	761
Trips by Existing Building	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildout Growth	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	31	358	12	11	6	8	8	74	28	96	21	108	761
Background Conditions	33	1205	206	77	6	162	185	265	31	99	21	108	2398
check	33	1205	206	77	6	162	185	265	31	99	21	108	
Proposed Project Trips													
Proj Trips (Under Existing Condition)	0	1	0	0	0	0	0	1	0	0	0	0	2
Proj Trips (with Future Improv)	0	1	0	0	0	0	0	1	0	0	0	0	2
Background+Project Conditions	33	1206	206	77	6	162	185	266	31	99	21	108	2400
check	33	1206	206	77	6	162	185	266	31	99	21	108	
Existing+Project Conditions	2	848	194	66	0	154	177	192	3	3	0	0	1639
check	2	848	194	66	0	154	177	192	3	3	0	0	
Pending Project Trips													
Pending Projects	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative Growth	0	88	20	7	0	16	18	20	0	0	0	0	170
Total	0	88	20	7	0	16	18	20	0	0	0	0	170
Cumulative w/o Conditions	33	1293	226	84	6	178	203	285	31	99	21	108	2568
check	33	1293	226	84	6	178	203	285	31	99	21	108	
Cumulative+Project Conditions	33	1294	226	84	6	178	203	286	31	99	21	108	2570
check	33	1294	226	84	6	178	203	286	31	99	21	108	

Intersection Number: 11
Traffix Node Number: 11
Intersection NPMe: Whisman Road / Middlefield Road
Peak Hour: PM
Count Date: 09/25/18
Scenario: Residential & Retail
Growth Factor Per Year: 2%
Date of Analysis: 11/15/18
Near Term Buildout: 0
Five Year Cumulative: 5

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	81	307	45	47	491	302	53	66	85	422	436	75	2410
check	81	307	45	47	491	302	53	66	85	422	436	75	
Approved Project Trips													
Approved Project 1	26	19	96	27	23	2	1	3	0	0	69	12	278
Trips by Existing Building	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildout Growth	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	26	19	96	27	23	2	1	3	0	0	69	12	278
Background Conditions	107	326	141	74	514	304	54	69	85	422	505	87	2688
check	107	326	141	74	514	304	54	69	85	422	505	87	
Proposed Project Trips													
Proj Trips (Under Existing Condition)	2	0	0	0	7	0	0	0	2	2	5	2	20
Proj Trips (with Future Improv)	2	0	0	0	7	0	0	0	2	2	5	2	20
Background+Project Conditions	109	326	141	74	521	304	54	69	87	424	510	89	2708
check	109	326	141	74	521	304	54	69	87	424	510	89	
Existing+Project Conditions	83	307	45	47	498	302	53	66	87	424	441	77	2430
check	83	307	45	47	498	302	53	66	87	424	441	77	
Pending Project Trips													
Pending Projects	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative Growth	8	32	5	5	51	31	6	7	9	44	45	8	251
Total	8	32	5	5	51	31	6	7	9	44	45	8	251
Cumulative w/o Conditions	115	358	146	79	565	335	60	76	94	466	550	95	2939
check	115	358	146	79	565	335	60	76	94	466	550	95	
Cumulative+Project Conditions	117	358	146	79	572	335	60	76	96	468	555	97	2959
check	117	358	146	79	572	335	60	76	96	468	555	97	

Intersection Number: 12
Traffix Node Number: 12
Intersection NPMe: Ellis Street / Middlefield Road
Peak Hour: PM
Count Date: 09/25/18
Scenario: Residential & Retail
Growth Factor Per Year: 2%
Date of Analysis: 11/15/18
Near Term Buildout: 0
Five Year Cumulative: 5

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	307	0	438	119	434	0	0	0	0	0	589	120	2007
check	307	0	438	119	434	0	0	0	0	0	589	120	
Approved Project Trips													
Approved Project 1	13	0	57	-17	39	0	0	0	0	0	167	2	261
Trips by Existing Building	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildout Growth	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	13	0	57	-17	39	0	0	0	0	0	167	2	261
Background Conditions	320	0	495	102	473	0	0	0	0	0	756	122	2268
check	320	0	495	102	473	0	0	0	0	0	756	122	
Proposed Project Trips													
Proj Trips (Under Existing Condition)	1	0	0	0	5	0	0	0	0	0	4	1	11
Proj Trips (with Future Improv)	1	0	0	0	5	0	0	0	0	0	4	1	11
Background+Project Conditions	321	0	495	102	478	0	0	0	0	0	760	123	2279
check	321	0	495	102	478	0	0	0	0	0	760	123	
Existing+Project Conditions	308	0	438	119	439	0	0	0	0	0	593	121	2018
check	308	0	438	119	439	0	0	0	0	0	593	121	
Pending Project Trips													
Pending Projects	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative Growth	32	0	46	12	45	0	0	0	0	0	61	12	209
Total	32	0	46	12	45	0	0	0	0	0	61	12	209
Cumulative w/o Conditions	352	0	541	114	518	0	0	0	0	0	817	134	2477
check	352	0	541	114	518	0	0	0	0	0	817	134	
Cumulative+Project Conditions	353	0	541	114	523	0	0	0	0	0	821	135	2488
check	353	0	541	114	523	0	0	0	0	0	821	135	

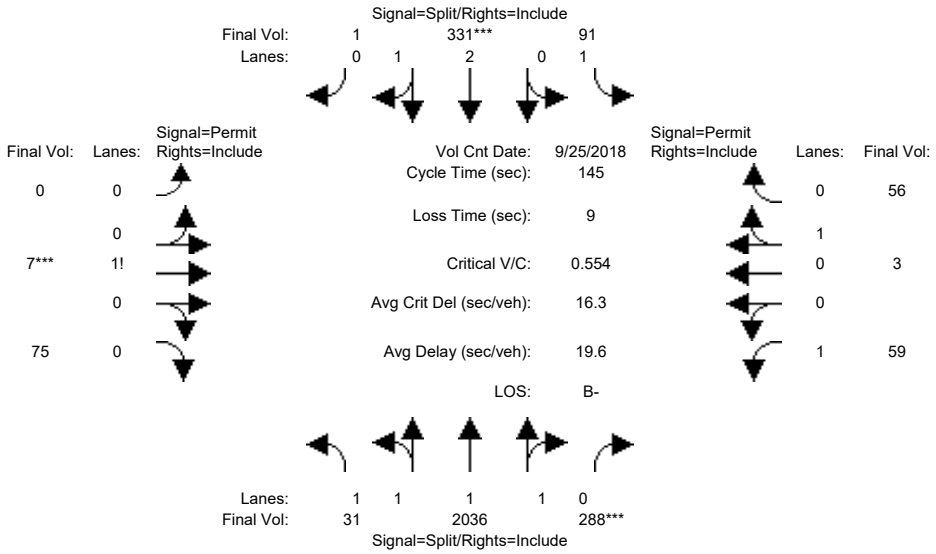
Appendix C

Intersection Level of Service Calculations

1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing AM

Intersection #1: Shoreline Blvd. & Pear Ave



Street Name:	Shoreline Blvd						Pear Ave					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 <<												
Base Vol:	31	2036	288	91	331	1	0	7	75	59	3	56
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	31	2036	288	91	331	1	0	7	75	59	3	56
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	31	2036	288	91	331	1	0	7	75	59	3	56
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	31	2036	288	91	331	1	0	7	75	59	3	56
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	31	2036	288	91	331	1	0	7	75	59	3	56
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	31	2036	288	91	331	1	0	7	75	59	3	56
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.92	0.98	0.95	0.92	0.95	0.95	0.92	0.95	0.95
Lanes:	1.00	2.61	0.39	1.00	2.99	0.01	0.00	0.09	0.91	1.00	0.05	0.95
Final Sat.:	1750	4905	694	1750	5583	17	0	154	1646	1750	92	1708
Capacity Analysis Module:												
Vol/Sat:	0.02	0.42	0.42	0.05	0.06	0.06	0.00	0.05	0.05	0.03	0.03	0.03
Crit Moves:			****		****			****				
Green Time:	108.6	109	108.6	15.5	15.5	15.5	0.0	11.9	11.9	11.9	11.9	11.9
Volume/Cap:	0.02	0.55	0.55	0.49	0.55	0.55	0.00	0.55	0.55	0.41	0.40	0.40
Delay/Veh:	4.7	8.0	8.0	63.0	62.6	62.6	0.0	68.5	68.5	65.1	64.9	64.9
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	4.7	8.0	8.0	63.0	62.6	62.6	0.0	68.5	68.5	65.1	64.9	64.9
LOS by Move:	A	A	A	E	E	E	A	E	E	E	E	E
HCM2kAvgQ:	0	14	14	5	5	5	0	4	4	3	3	3

Note: Queue reported is the number of cars per lane.

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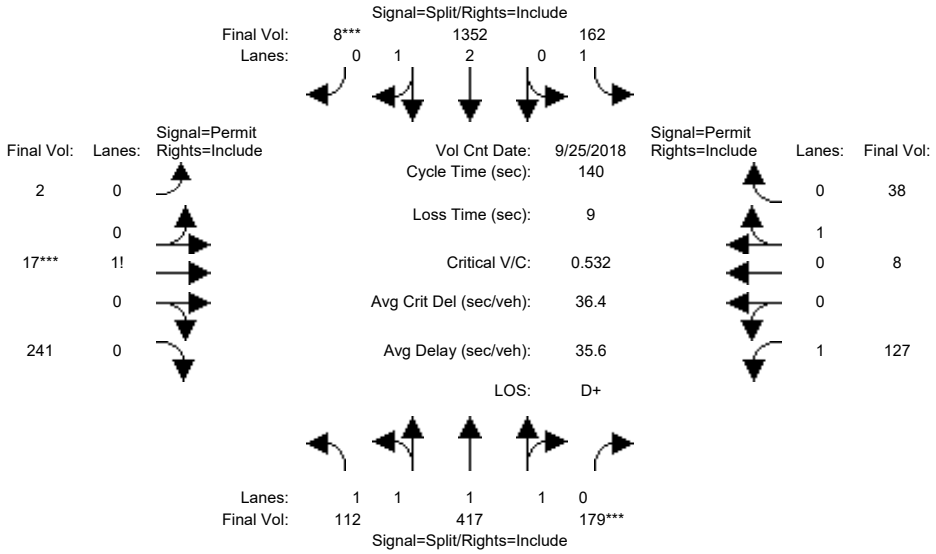
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing PM

Intersection #1: Shoreline Blvd. & Pear Ave



Street Name:	Shoreline Blvd						Pear Ave					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 <<												
Base Vol:	112	417	179	162	1352	8	2	17	241	127	8	38
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	112	417	179	162	1352	8	2	17	241	127	8	38
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	112	417	179	162	1352	8	2	17	241	127	8	38
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	112	417	179	162	1352	8	2	17	241	127	8	38
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	112	417	179	162	1352	8	2	17	241	127	8	38
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	112	417	179	162	1352	8	2	17	241	127	8	38
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.95	0.92	0.98	0.95	0.92	0.92	0.92	0.92	0.95	0.95
Lanes:	1.00	2.07	0.93	1.00	2.98	0.02	0.01	0.06	0.93	1.00	0.17	0.83
Final Sat.:	1750	3916	1681	1750	5567	33	13	114	1622	1750	313	1487
Capacity Analysis Module:												
Vol/Sat:	0.06	0.11	0.11	0.09	0.24	0.24	0.15	0.15	0.15	0.07	0.03	0.03
Crit Moves:			****			****		****				
Green Time:	28.0	28.0	28.0	63.9	63.9	63.9	39.1	39.1	39.1	39.1	39.1	39.1
Volume/Cap:	0.32	0.53	0.53	0.20	0.53	0.53	0.53	0.53	0.53	0.26	0.09	0.09
Delay/Veh:	47.9	50.5	50.5	22.9	27.5	27.5	43.8	43.8	43.8	39.5	37.4	37.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	47.9	50.5	50.5	22.9	27.5	27.5	43.8	43.8	43.8	39.5	37.4	37.4
LOS by Move:	D	D	D	C+	C	C	D	D	D	D	D+	D+
HCM2kAvgQ:	4	8	8	4	14	14	10	10	10	5	1	1

Note: Queue reported is the number of cars per lane.

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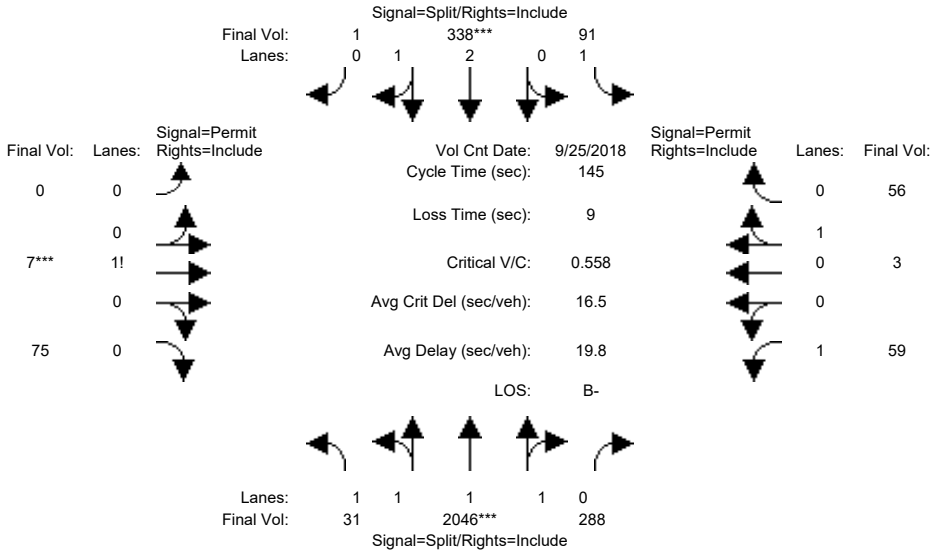
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex+Proj AM

Intersection #1: Shoreline Blvd. & Pear Ave



Street Name:	Shoreline Blvd						Pear Ave					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 <<												
Base Vol:	31	2036	288	91	331	1	0	7	75	59	3	56
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	31	2036	288	91	331	1	0	7	75	59	3	56
Added Vol:	0	10	0	0	7	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	31	2046	288	91	338	1	0	7	75	59	3	56
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	31	2046	288	91	338	1	0	7	75	59	3	56
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	31	2046	288	91	338	1	0	7	75	59	3	56
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	31	2046	288	91	338	1	0	7	75	59	3	56
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.92	0.98	0.95	0.92	0.95	0.95	0.92	0.95	0.95
Lanes:	1.00	2.62	0.38	1.00	2.99	0.01	0.00	0.09	0.91	1.00	0.05	0.95
Final Sat.:	1750	4908	691	1750	5583	17	0	154	1646	1750	92	1708
Capacity Analysis Module:												
Vol/Sat:	0.02	0.42	0.42	0.05	0.06	0.06	0.00	0.05	0.05	0.03	0.03	0.03
Crit Moves:		****			****			****				
Green Time:	108.4	108	108.4	15.7	15.7	15.7	0.0	11.8	11.8	11.8	11.8	11.8
Volume/Cap:	0.02	0.56	0.56	0.48	0.56	0.56	0.00	0.56	0.56	0.41	0.40	0.40
Delay/Veh:	4.7	8.1	8.1	62.7	62.5	62.5	0.0	68.8	68.8	65.2	65.0	65.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	4.7	8.1	8.1	62.7	62.5	62.5	0.0	68.8	68.8	65.2	65.0	65.0
LOS by Move:	A	A	A	E	E	E	A	E	E	E	E	E
HCM2kAvgQ:	0	14	14	5	6	6	0	4	4	3	3	3

Note: Queue reported is the number of cars per lane.

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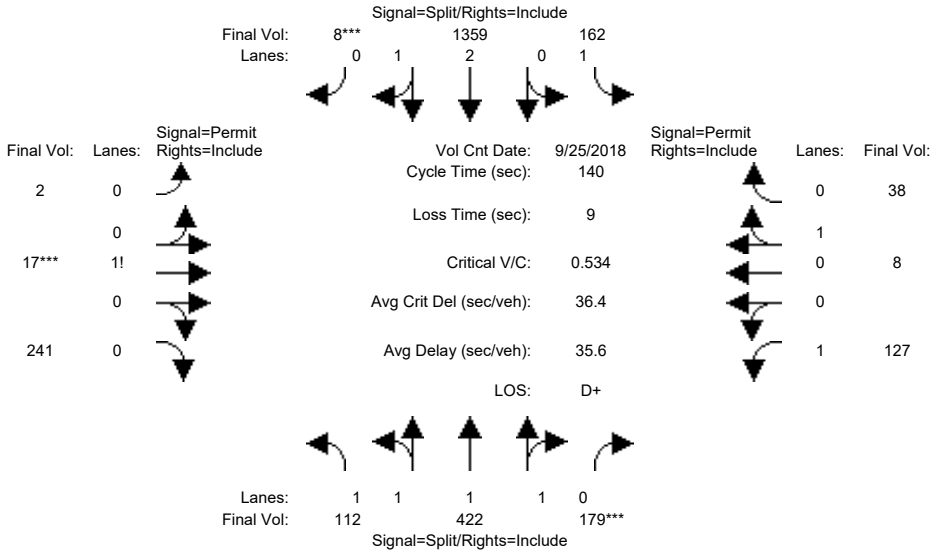
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex+Proj PM

Intersection #1: Shoreline Blvd. & Pear Ave



Street Name:	Shoreline Blvd						Pear Ave					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 <<												
Base Vol:	112	417	179	162	1352	8	2	17	241	127	8	38
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	112	417	179	162	1352	8	2	17	241	127	8	38
Added Vol:	0	5	0	0	7	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	112	422	179	162	1359	8	2	17	241	127	8	38
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	112	422	179	162	1359	8	2	17	241	127	8	38
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	112	422	179	162	1359	8	2	17	241	127	8	38
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	112	422	179	162	1359	8	2	17	241	127	8	38
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.95	0.92	0.98	0.95	0.92	0.92	0.92	0.92	0.95	0.95
Lanes:	1.00	2.07	0.93	1.00	2.98	0.02	0.01	0.06	0.93	1.00	0.17	0.83
Final Sat.:	1750	3930	1667	1750	5567	33	13	114	1622	1750	313	1487
Capacity Analysis Module:												
Vol/Sat:	0.06	0.11	0.11	0.09	0.24	0.24	0.15	0.15	0.15	0.07	0.03	0.03
Crit Moves:			****			****		****				
Green Time:	28.1	28.1	28.1	63.9	63.9	63.9	38.9	38.9	38.9	38.9	38.9	38.9
Volume/Cap:	0.32	0.53	0.53	0.20	0.53	0.53	0.53	0.53	0.53	0.26	0.09	0.09
Delay/Veh:	47.8	50.5	50.5	22.9	27.5	27.5	44.0	44.0	44.0	39.6	37.5	37.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	47.8	50.5	50.5	22.9	27.5	27.5	44.0	44.0	44.0	39.6	37.5	37.5
LOS by Move:	D	D	D	C+	C	C	D	D	D	D	D+	D+
HCM2kAvgQ:	4	8	8	4	14	14	10	10	10	5	2	2

Note: Queue reported is the number of cars per lane.

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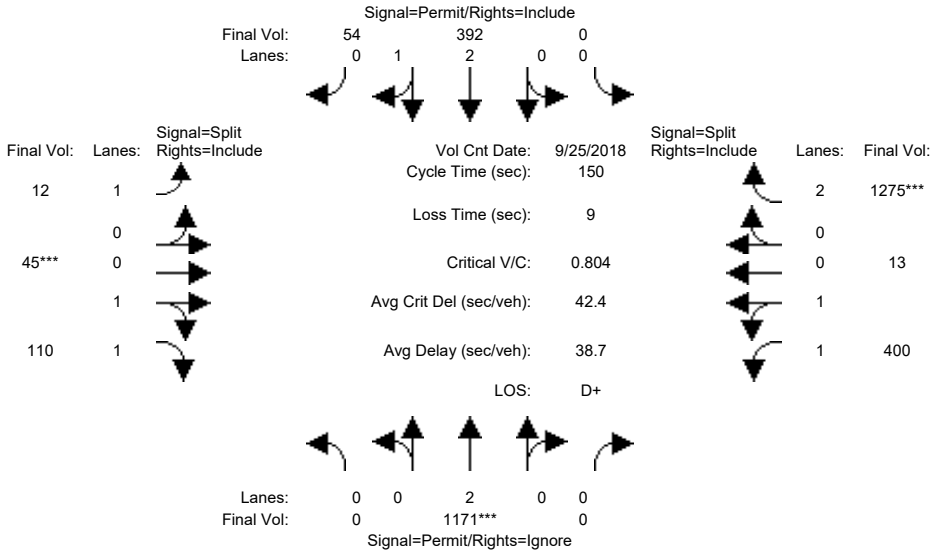
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing AM

Intersection #2: Shoreline Blvd. & US101 NB Off-ramp/La Avenida



Street Name:	Shoreline Boulevard						US101 NB Off-ramp/La Avenida Aven					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	0	10	0	0	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 <<												
Base Vol:	0	1171	0	0	392	54	12	45	110	400	13	1275
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	1171	0	0	392	54	12	45	110	400	13	1275
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	1171	0	0	392	54	12	45	110	400	13	1275
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	1171	0	0	392	54	12	45	110	400	13	1275
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1171	0	0	392	54	12	45	110	400	13	1275
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	1171	0	0	392	54	12	45	110	400	13	1275
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	0.99	0.95	0.92	0.95	0.95	0.93	0.95	0.83
Lanes:	0.00	2.00	0.00	0.00	2.62	0.38	1.00	0.58	1.42	1.94	0.06	2.00
Final Sat.:	0	3800	0	0	4921	678	1750	1045	2555	3438	112	3150
Capacity Analysis Module:												
Vol/Sat:	0.00	0.31	0.00	0.00	0.08	0.08	0.01	0.04	0.04	0.12	0.12	0.40
Crit Moves:		****						****				****
Green Time:	0.0	56.6	0.0	0.0	56.6	56.6	10.0	10.0	10.0	74.4	74.4	74.4
Volume/Cap:	0.00	0.82	0.00	0.00	0.21	0.21	0.10	0.65	0.65	0.23	0.23	0.82
Delay/Veh:	0.0	45.8	0.0	0.0	31.6	31.6	66.2	74.2	74.2	21.6	21.6	35.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	45.8	0.0	0.0	31.6	31.6	66.2	74.2	74.2	21.6	21.6	35.5
LOS by Move:	A	D	A	A	C	C	E	E	E	C+	C+	D+
HCM2kAvgQ:	0	26	0	0	4	4	1	5	5	6	6	31

Note: Queue reported is the number of cars per lane.

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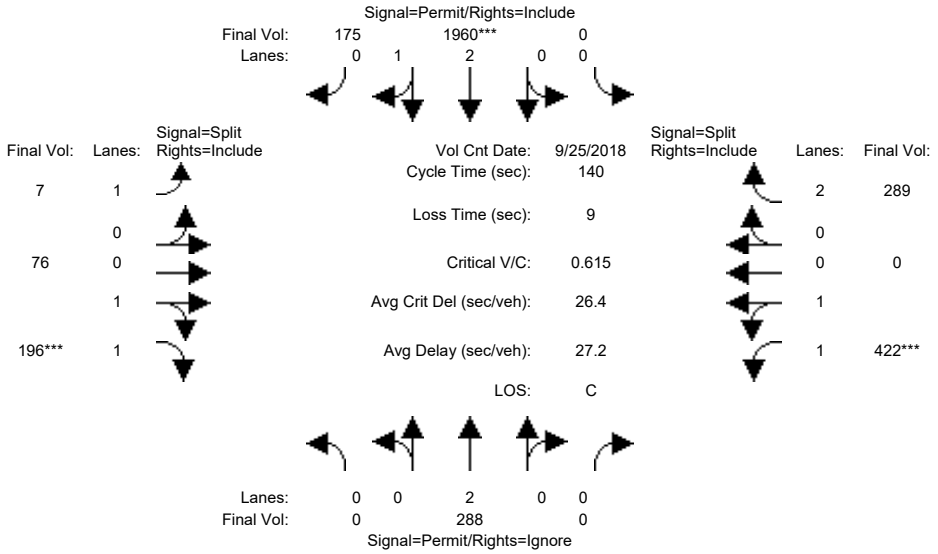
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing PM

Intersection #2: Shoreline Blvd. & US101 NB Off-ramp/La Avenida



Street Name:	Shoreline Boulevard						US101 NB Off-ramp/La Avenida Aven					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	0	10	0	0	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 <<												
Base Vol:	0	288	0	0	1960	175	7	76	196	422	0	289
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	288	0	0	1960	175	7	76	196	422	0	289
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	288	0	0	1960	175	7	76	196	422	0	289
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	288	0	0	1960	175	7	76	196	422	0	289
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	288	0	0	1960	175	7	76	196	422	0	289
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	288	0	0	1960	175	7	76	196	422	0	289
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	0.99	0.95	0.92	0.95	0.95	0.93	1.00	0.83
Lanes:	0.00	2.00	0.00	0.00	2.75	0.25	1.00	0.56	1.44	2.00	0.00	2.00
Final Sat.:	0	3800	0	0	5140	459	1750	1006	2594	3550	0	3150
Capacity Analysis Module:												
Vol/Sat:	0.00	0.08	0.00	0.00	0.38	0.38	0.00	0.08	0.08	0.12	0.00	0.09
Crit Moves:					****				****	****		
Green Time:	0.0	86.8	0.0	0.0	86.8	86.8	17.2	17.2	17.2	27.0	0.0	27.0
Volume/Cap:	0.00	0.12	0.00	0.00	0.62	0.62	0.03	0.62	0.62	0.62	0.00	0.47
Delay/Veh:	0.0	11.0	0.0	0.0	16.7	16.7	54.1	60.9	60.9	53.4	0.0	50.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	11.0	0.0	0.0	16.7	16.7	54.1	60.9	60.9	53.4	0.0	50.8
LOS by Move:	A	B+	A	A	B	B	D-	E	E	D-	A	D
HCM2kAvgQ:	0	2	0	0	19	19	0	7	7	10	0	7

Note: Queue reported is the number of cars per lane.

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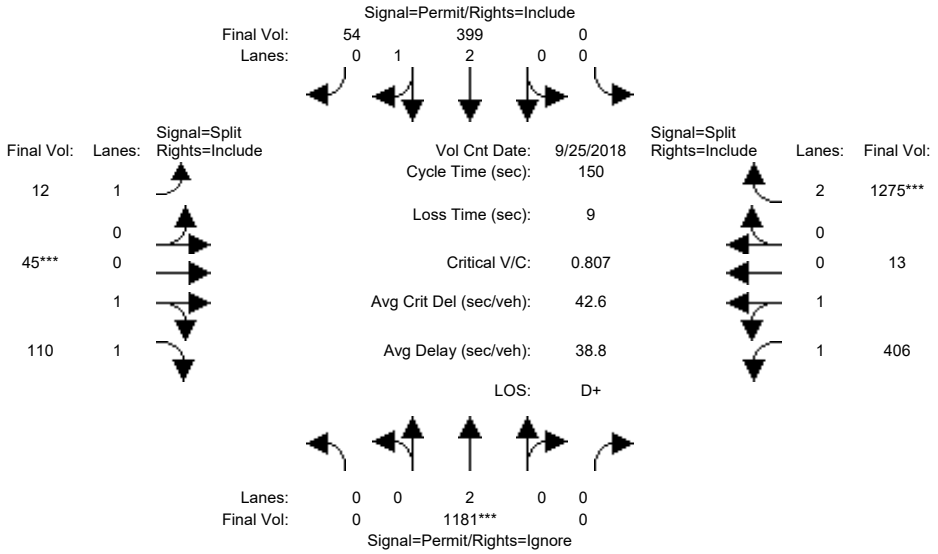
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex+Proj AM

Intersection #2: Shoreline Blvd. & US101 NB Off-ramp/La Avenida



Street Name:	Shoreline Boulevard						US101 NB Off-ramp/La Avenida Aven					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	0	10	0	0	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 <<												
Base Vol:	0	1171	0	0	392	54	12	45	110	400	13	1275
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	1171	0	0	392	54	12	45	110	400	13	1275
Added Vol:	0	10	0	0	7	0	0	0	0	6	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	1181	0	0	399	54	12	45	110	406	13	1275
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	1181	0	0	399	54	12	45	110	406	13	1275
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1181	0	0	399	54	12	45	110	406	13	1275
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	1181	0	0	399	54	12	45	110	406	13	1275
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	0.99	0.95	0.92	0.95	0.95	0.93	0.95	0.83
Lanes:	0.00	2.00	0.00	0.00	2.63	0.37	1.00	0.58	1.42	1.94	0.06	2.00
Final Sat.:	0	3800	0	0	4932	667	1750	1045	2555	3440	110	3150
Capacity Analysis Module:												
Vol/Sat:	0.00	0.31	0.00	0.00	0.08	0.08	0.01	0.04	0.04	0.12	0.12	0.40
Crit Moves:		****						****				****
Green Time:	0.0	56.9	0.0	0.0	56.9	56.9	10.0	10.0	10.0	74.1	74.1	74.1
Volume/Cap:	0.00	0.82	0.00	0.00	0.21	0.21	0.10	0.65	0.65	0.24	0.24	0.82
Delay/Veh:	0.0	45.8	0.0	0.0	31.5	31.5	66.2	74.2	74.2	21.8	21.8	35.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	45.8	0.0	0.0	31.5	31.5	66.2	74.2	74.2	21.8	21.8	35.8
LOS by Move:	A	D	A	A	C	C	E	E	E	C+	C+	D+
HCM2kAvgQ:	0	26	0	0	4	4	1	5	5	6	6	31

Note: Queue reported is the number of cars per lane.

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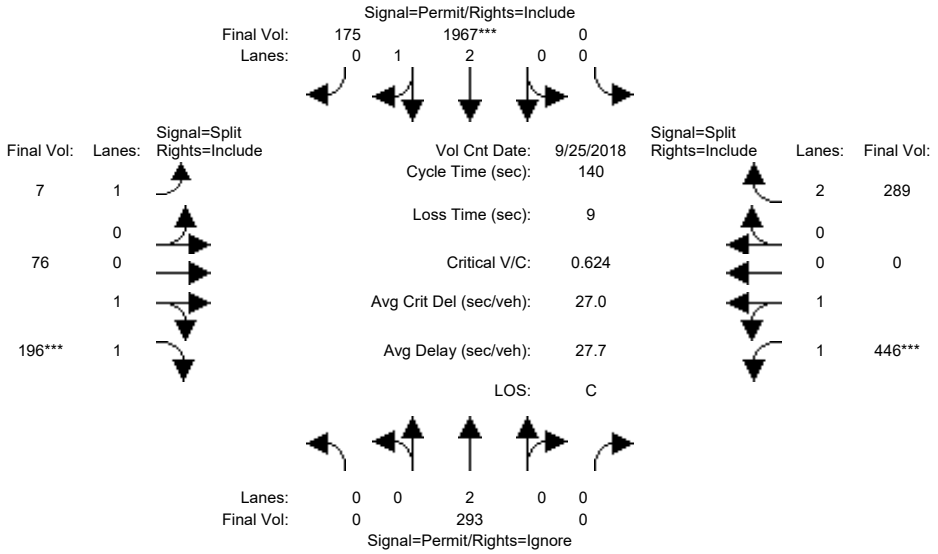
Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex+Proj PM

Intersection #2: Shoreline Blvd. & US101 NB Off-ramp/La Avenida



Street Name:	Shoreline Boulevard						US101 NB Off-ramp/La Avenida Aven					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	0	10	0	0	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 <<												
Base Vol:	0	288	0	0	1960	175	7	76	196	422	0	289
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	288	0	0	1960	175	7	76	196	422	0	289
Added Vol:	0	5	0	0	7	0	0	0	0	24	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	293	0	0	1967	175	7	76	196	446	0	289
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	293	0	0	1967	175	7	76	196	446	0	289
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	293	0	0	1967	175	7	76	196	446	0	289
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	293	0	0	1967	175	7	76	196	446	0	289
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	0.99	0.95	0.92	0.95	0.95	0.93	1.00	0.83
Lanes:	0.00	2.00	0.00	0.00	2.75	0.25	1.00	0.56	1.44	2.00	0.00	2.00
Final Sat.:	0	3800	0	0	5142	457	1750	1006	2594	3550	0	3150
Capacity Analysis Module:												
Vol/Sat:	0.00	0.08	0.00	0.00	0.38	0.38	0.00	0.08	0.08	0.13	0.00	0.09
Crit Moves:					****				****	****		
Green Time:	0.0	85.8	0.0	0.0	85.8	85.8	17.0	17.0	17.0	28.2	0.0	28.2
Volume/Cap:	0.00	0.13	0.00	0.00	0.62	0.62	0.03	0.62	0.62	0.62	0.00	0.46
Delay/Veh:	0.0	11.4	0.0	0.0	17.3	17.3	54.4	61.3	61.3	52.8	0.0	49.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	11.4	0.0	0.0	17.3	17.3	54.4	61.3	61.3	52.8	0.0	49.7
LOS by Move:	A	B+	A	A	B	B	D-	E	E	D-	A	D
HCM2kAvgQ:	0	3	0	0	19	19	0	7	7	10	0	7

Note: Queue reported is the number of cars per lane.

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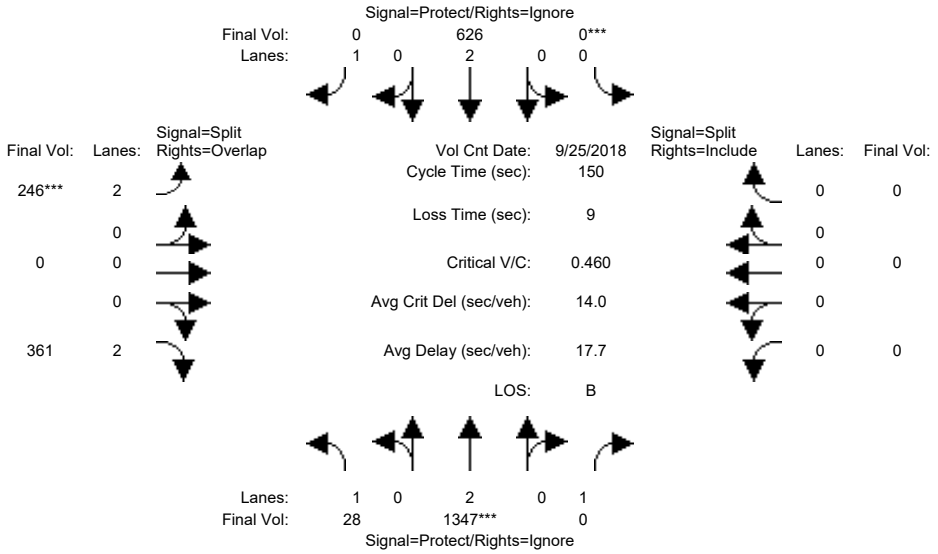
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing AM

Intersection #3: Shoreline Blvd. & US101/SR 85 SB Ramps



Street Name:	Shoreline Boulevard						US 101/SR85 SB Ramps					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L - T - R			L - T - R			L - T - R			L - T - R		
Min. Green:	7	10	10	0	10	10	10	0	10	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 <<												
Base Vol:	28	1347	264	0	626	288	246	0	361	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	28	1347	264	0	626	288	246	0	361	0	0	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	28	1347	264	0	626	288	246	0	361	0	0	0
User Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	28	1347	0	0	626	0	246	0	361	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	28	1347	0	0	626	0	246	0	361	0	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	28	1347	0	0	626	0	246	0	361	0	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.83	1.00	0.83	0.92	1.00	0.92
Lanes:	1.00	2.00	1.00	0.00	2.00	1.00	2.00	0.00	2.00	0.00	0.00	0.00
Final Sat.:	1750	3800	1750	0	3800	1750	3150	0	3150	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.02	0.35	0.00	0.00	0.16	0.00	0.08	0.00	0.11	0.00	0.00	0.00
Crit Moves:		****		****			****					
Green Time:	25.5	116	0.0	0.0	90.0	0.0	25.5	0.0	51.0	0.0	0.0	0.0
Volume/Cap:	0.09	0.46	0.00	0.00	0.27	0.00	0.46	0.00	0.34	0.00	0.00	0.00
Delay/Veh:	52.6	6.2	0.0	0.0	14.4	0.0	56.7	0.0	37.1	0.0	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	52.6	6.2	0.0	0.0	14.4	0.0	56.7	0.0	37.1	0.0	0.0	0.0
LOS by Move:	D-	A	A	A	B	A	E+	A	D+	A	A	A
HCM2kAvgQ:	1	11	0	0	7	0	6	0	7	0	0	0

Note: Queue reported is the number of cars per lane.

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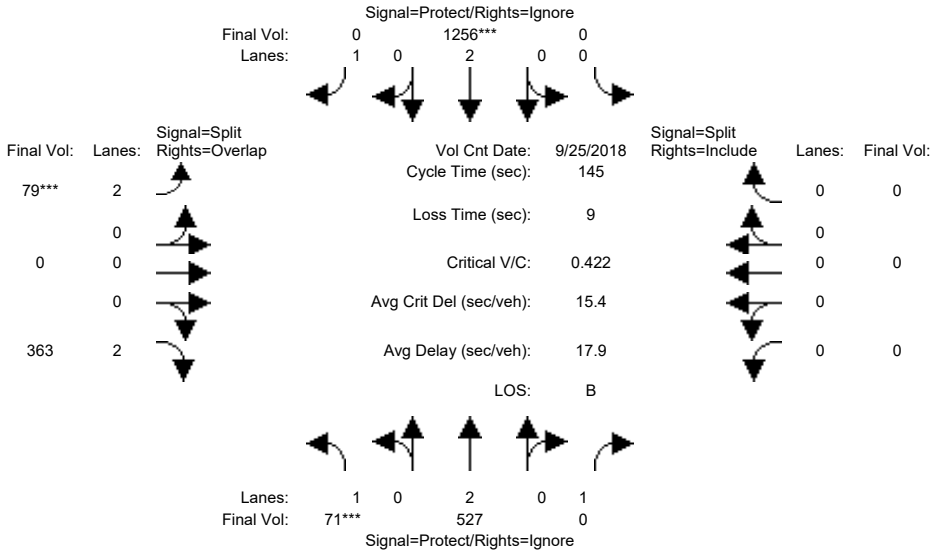
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing PM

Intersection #3: Shoreline Blvd. & US101/SR 85 SB Ramps



Street Name:	Shoreline Boulevard						US 101/SR85 SB Ramps					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	0	10	10	10	0	10	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 <<												
Base Vol:	71	527	222	0	1256	1324	79	0	363	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	71	527	222	0	1256	1324	79	0	363	0	0	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	71	527	222	0	1256	1324	79	0	363	0	0	0
User Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	71	527	0	0	1256	0	79	0	363	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	71	527	0	0	1256	0	79	0	363	0	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	71	527	0	0	1256	0	79	0	363	0	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.83	1.00	0.83	0.92	1.00	0.92
Lanes:	1.00	2.00	1.00	0.00	2.00	1.00	2.00	0.00	2.00	0.00	0.00	0.00
Final Sat.:	1750	3800	1750	0	3800	1750	3150	0	3150	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.04	0.14	0.00	0.00	0.33	0.00	0.03	0.00	0.12	0.00	0.00	0.00
Crit Moves:	****				****		****					
Green Time:	12.4	113	0.0	0.0	101	0.0	23.0	0.0	35.3	0.0	0.0	0.0
Volume/Cap:	0.48	0.18	0.00	0.00	0.48	0.00	0.16	0.00	0.47	0.00	0.00	0.00
Delay/Veh:	65.6	4.1	0.0	0.0	10.3	0.0	52.8	0.0	47.3	0.0	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	65.6	4.1	0.0	0.0	10.3	0.0	52.8	0.0	47.3	0.0	0.0	0.0
LOS by Move:	E	A	A	A	B+	A	D-	A	D	A	A	A
HCM2kAvgQ:	4	3	0	0	12	0	2	0	8	0	0	0

Note: Queue reported is the number of cars per lane.

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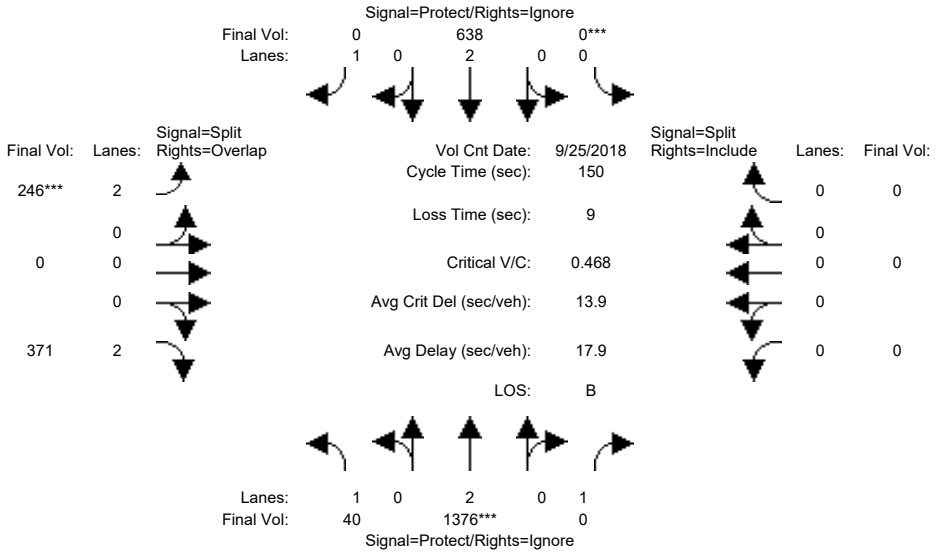
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex+Proj AM

Intersection #3: Shoreline Blvd. & US101/SR 85 SB Ramps



Street Name:	Shoreline Boulevard						US 101/SR85 SB Ramps					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	0	10	10	10	0	10	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 <<												
Base Vol:	28	1347	264	0	626	288	246	0	361	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	28	1347	264	0	626	288	246	0	361	0	0	0
Added Vol:	12	29	0	0	12	0	0	0	10	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	40	1376	264	0	638	288	246	0	371	0	0	0
User Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	40	1376	0	0	638	0	246	0	371	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	40	1376	0	0	638	0	246	0	371	0	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	40	1376	0	0	638	0	246	0	371	0	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.83	1.00	0.83	0.92	1.00	0.92
Lanes:	1.00	2.00	1.00	0.00	2.00	1.00	2.00	0.00	2.00	0.00	0.00	0.00
Final Sat.:	1750	3800	1750	0	3800	1750	3150	0	3150	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.02	0.36	0.00	0.00	0.17	0.00	0.08	0.00	0.12	0.00	0.00	0.00
Crit Moves:		****		****			****					
Green Time:	25.2	116	0.0	0.0	90.8	0.0	25.0	0.0	50.2	0.0	0.0	0.0
Volume/Cap:	0.14	0.47	0.00	0.00	0.28	0.00	0.47	0.00	0.35	0.00	0.00	0.00
Delay/Veh:	53.3	6.2	0.0	0.0	14.1	0.0	57.1	0.0	37.8	0.0	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	53.3	6.2	0.0	0.0	14.1	0.0	57.1	0.0	37.8	0.0	0.0	0.0
LOS by Move:	D-	A	A	A	B	A	E+	A	D+	A	A	A
HCM2kAvgQ:	2	11	0	0	7	0	6	0	8	0	0	0

Note: Queue reported is the number of cars per lane.

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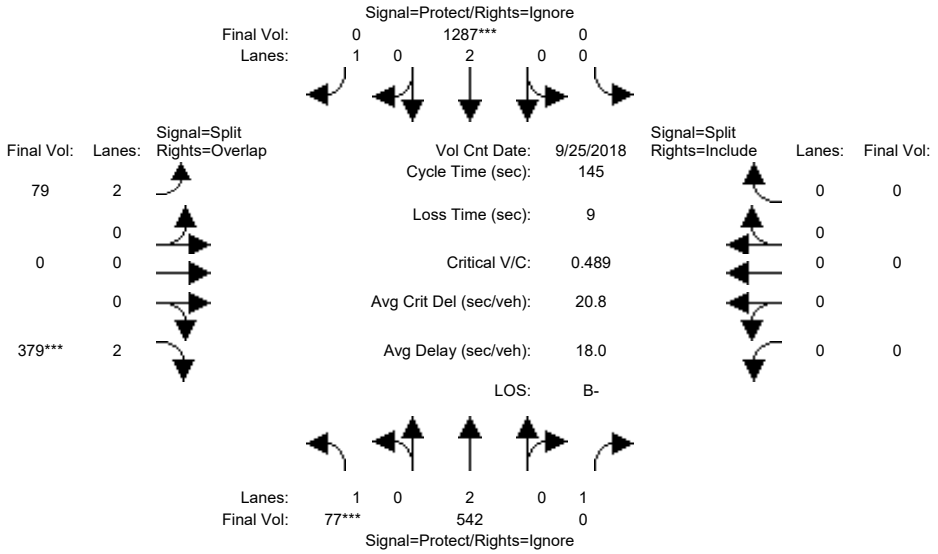
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex+Proj PM

Intersection #3: Shoreline Blvd. & US101/SR 85 SB Ramps



Street Name:	Shoreline Boulevard						US 101/SR85 SB Ramps					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	0	10	10	10	0	10	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 <<												
Base Vol:	71	527	222	0	1256	1324	79	0	363	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	71	527	222	0	1256	1324	79	0	363	0	0	0
Added Vol:	6	15	0	0	31	0	0	0	16	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	77	542	222	0	1287	1324	79	0	379	0	0	0
User Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	77	542	0	0	1287	0	79	0	379	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	77	542	0	0	1287	0	79	0	379	0	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	77	542	0	0	1287	0	79	0	379	0	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.83	1.00	0.83	0.92	1.00	0.92
Lanes:	1.00	2.00	1.00	0.00	2.00	1.00	2.00	0.00	2.00	0.00	0.00	0.00
Final Sat.:	1750	3800	1750	0	3800	1750	3150	0	3150	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.04	0.14	0.00	0.00	0.34	0.00	0.03	0.00	0.12	0.00	0.00	0.00
Crit Moves:	****				****				****			
Green Time:	13.2	114	0.0	0.0	101	0.0	21.5	0.0	34.7	0.0	0.0	0.0
Volume/Cap:	0.48	0.18	0.00	0.00	0.48	0.00	0.17	0.00	0.50	0.00	0.00	0.00
Delay/Veh:	65.0	3.8	0.0	0.0	10.1	0.0	54.1	0.0	48.2	0.0	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	65.0	3.8	0.0	0.0	10.1	0.0	54.1	0.0	48.2	0.0	0.0	0.0
LOS by Move:	E	A	A	A	B+	A	D-	A	D	A	A	A
HCM2kAvgQ:	4	3	0	0	13	0	2	0	9	0	0	0

Note: Queue reported is the number of cars per lane.

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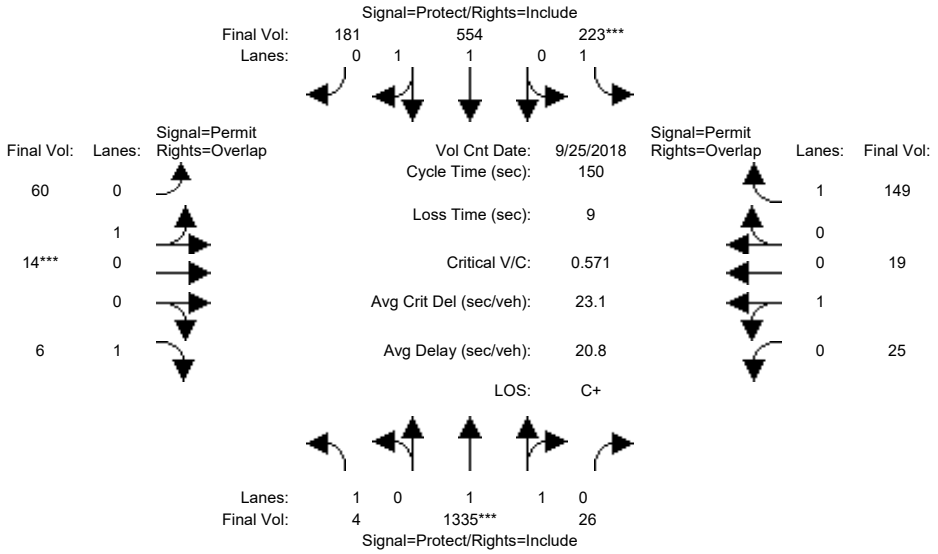
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing AM

Intersection #4: Shoreline Blvd & Terra Bella Ave



Street Name:	Shoreline Blvd						Terra Bella Ave					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 <<												
Base Vol:	4	1335	26	223	554	181	60	14	6	25	19	149
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	4	1335	26	223	554	181	60	14	6	25	19	149
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	4	1335	26	223	554	181	60	14	6	25	19	149
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	4	1335	26	223	554	181	60	14	6	25	19	149
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	4	1335	26	223	554	181	60	14	6	25	19	149
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	4	1335	26	223	554	181	60	14	6	25	19	149
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.97	0.95	0.92	0.98	0.95	0.95	0.95	0.92	0.95	0.95	0.92
Lanes:	1.00	1.96	0.04	1.00	1.49	0.51	0.81	0.19	1.00	0.57	0.43	1.00
Final Sat.:	1750	3629	71	1750	2788	911	1459	341	1750	1023	777	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.37	0.37	0.13	0.20	0.20	0.04	0.04	0.00	0.02	0.02	0.09
Crit Moves:		****		****				****				
Green Time:	24.8	96.7	96.7	33.5	105	105.4	10.8	10.8	35.6	10.8	10.8	44.3
Volume/Cap:	0.01	0.57	0.57	0.57	0.28	0.28	0.57	0.57	0.01	0.34	0.34	0.29
Delay/Veh:	52.4	15.3	15.3	53.9	8.3	8.3	73.3	73.3	43.8	67.8	67.8	41.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	52.4	15.3	15.3	53.9	8.3	8.3	73.3	73.3	43.8	67.8	67.8	41.0
LOS by Move:	D-	B	B	D-	A	A	E	E	D	E	E	D
HCM2kAvgQ:	0	17	17	10	6	6	4	4	0	2	2	6

Note: Queue reported is the number of cars per lane.

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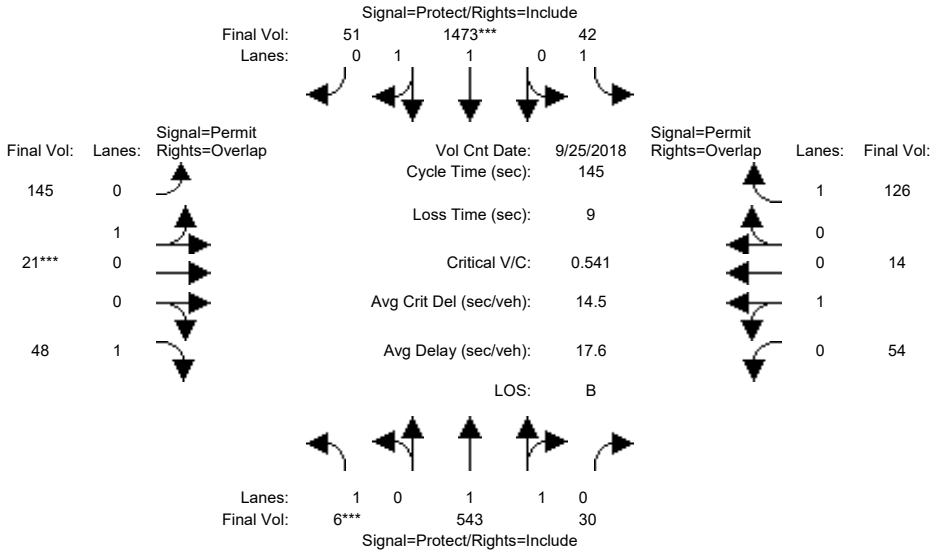
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing PM

Intersection #4: Shoreline Blvd & Terra Bella Ave



Street Name:	Shoreline Blvd						Terra Bella Ave					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 << 5:00-6:00 PM												
Base Vol:	6	543	30	42	1473	51	145	21	48	54	14	126
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	6	543	30	42	1473	51	145	21	48	54	14	126
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	6	543	30	42	1473	51	145	21	48	54	14	126
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	6	543	30	42	1473	51	145	21	48	54	14	126
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	6	543	30	42	1473	51	145	21	48	54	14	126
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	6	543	30	42	1473	51	145	21	48	54	14	126
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	0.97	0.95	0.95	0.95	0.92	0.95	0.95	0.92
Lanes:	1.00	1.89	0.11	1.00	1.93	0.07	0.87	0.13	1.00	0.79	0.21	1.00
Final Sat.:	1750	3506	194	1750	3576	124	1572	228	1750	1429	371	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.15	0.15	0.02	0.41	0.41	0.09	0.09	0.03	0.04	0.04	0.07
Crit Moves:	****				****			****				
Green Time:	7.0	85.7	85.7	26.7	105	105.4	23.6	23.6	30.6	23.6	23.6	50.3
Volume/Cap:	0.07	0.26	0.26	0.13	0.57	0.57	0.57	0.57	0.13	0.23	0.23	0.21
Delay/Veh:	66.3	14.4	14.4	49.6	9.5	9.5	58.6	58.6	46.6	53.2	53.2	33.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	66.3	14.4	14.4	49.6	9.5	9.5	58.6	58.6	46.6	53.2	53.2	33.5
LOS by Move:	E	B	B	D	A	A	E+	E+	D	D-	D-	C-
HCM2kAvgQ:	0	6	6	2	16	16	8	8	2	3	3	4

Note: Queue reported is the number of cars per lane.

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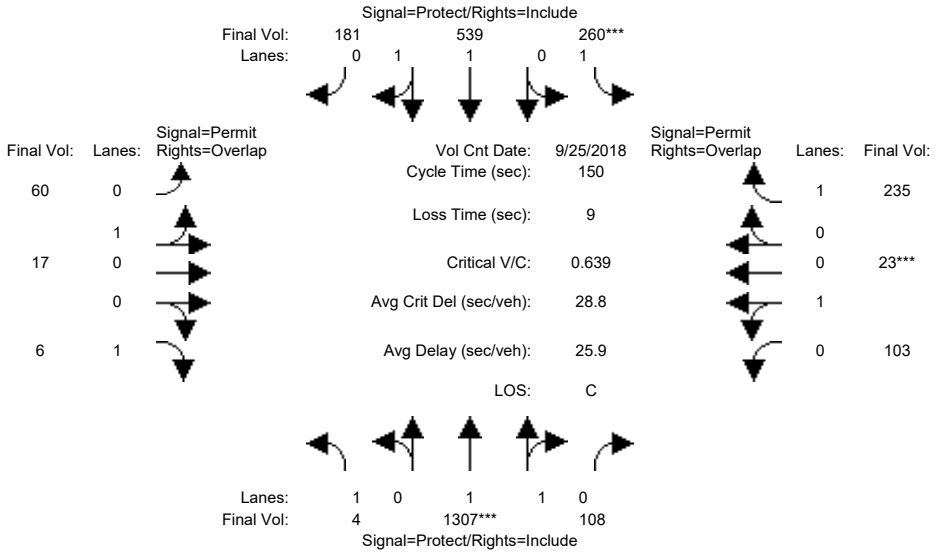
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex+Proj AM

Intersection #4: Shoreline Blvd & Terra Bella Ave



Street Name:	Shoreline Blvd						Terra Bella Ave					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 <<												
Base Vol:	4	1335	26	223	554	181	60	14	6	25	19	149
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	4	1335	26	223	554	181	60	14	6	25	19	149
Added Vol:	0	0	54	22	0	0	0	3	0	63	4	58
Retail Pass:	0	-28	28	15	-15	0	0	0	0	15	0	28
Initial Fut:	4	1307	108	260	539	181	60	17	6	103	23	235
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	4	1307	108	260	539	181	60	17	6	103	23	235
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	4	1307	108	260	539	181	60	17	6	103	23	235
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	4	1307	108	260	539	181	60	17	6	103	23	235
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	0.98	0.95	0.95	0.95	0.92	0.95	0.95	0.92
Lanes:	1.00	1.84	0.16	1.00	1.48	0.52	0.78	0.22	1.00	0.82	0.18	1.00
Final Sat.:	1750	3417	282	1750	2769	930	1403	397	1750	1471	329	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.38	0.38	0.15	0.19	0.19	0.04	0.04	0.00	0.07	0.07	0.13
Crit Moves:		****		****							****	
Green Time:	24.1	89.7	89.7	34.9	100	100.5	16.4	16.4	40.5	16.4	16.4	51.3
Volume/Cap:	0.01	0.64	0.64	0.64	0.29	0.29	0.39	0.39	0.01	0.64	0.64	0.39
Delay/Veh:	53.0	20.2	20.2	55.3	10.2	10.2	63.4	63.4	40.1	70.8	70.8	38.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	53.0	20.2	20.2	55.3	10.2	10.2	63.4	63.4	40.1	70.8	70.8	38.0
LOS by Move:	D-	C+	C+	E+	B+	B+	E	E	D	E	E	D+
HCM2kAvgQ:	0	21	21	12	7	7	4	4	0	7	7	9

Note: Queue reported is the number of cars per lane.

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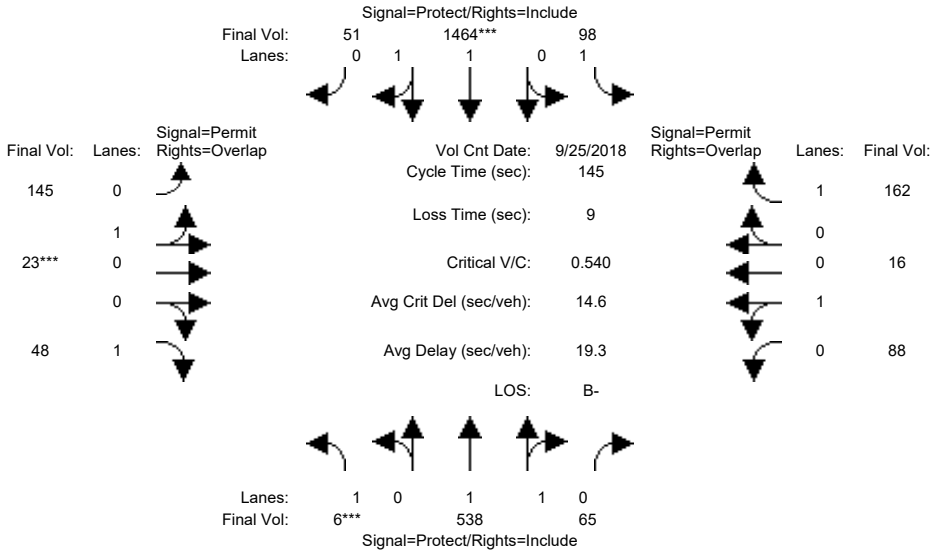
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex+Proj PM

Intersection #4: Shoreline Blvd & Terra Bella Ave



Street Name:	Shoreline Blvd						Terra Bella Ave					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 << 5:00-6:00 PM												
Base Vol:	6	543	30	42	1473	51	145	21	48	54	14	126
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	6	543	30	42	1473	51	145	21	48	54	14	126
Added Vol:	0	0	30	47	0	0	0	2	0	25	2	31
Retail Pass:	0	-5	5	9	-9	0	0	0	0	9	0	5
Initial Fut:	6	538	65	98	1464	51	145	23	48	88	16	162
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	6	538	65	98	1464	51	145	23	48	88	16	162
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	6	538	65	98	1464	51	145	23	48	88	16	162
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	6	538	65	98	1464	51	145	23	48	88	16	162
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	0.97	0.95	0.95	0.95	0.92	0.95	0.95	0.92
Lanes:	1.00	1.78	0.22	1.00	1.93	0.07	0.86	0.14	1.00	0.85	0.15	1.00
Final Sat.:	1750	3301	399	1750	3575	125	1554	246	1750	1523	277	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.16	0.16	0.06	0.41	0.41	0.09	0.09	0.03	0.06	0.06	0.09
Crit Moves:	****				****			****				
Green Time:	7.0	83.4	83.4	28.7	105	105.1	23.9	23.9	30.9	23.9	23.9	52.6
Volume/Cap:	0.07	0.28	0.28	0.28	0.57	0.57	0.57	0.57	0.13	0.35	0.35	0.26
Delay/Veh:	66.3	15.7	15.7	49.9	9.6	9.6	58.3	58.3	46.3	54.3	54.3	32.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	66.3	15.7	15.7	49.9	9.6	9.6	58.3	58.3	46.3	54.3	54.3	32.7
LOS by Move:	E	B	B	D	A	A	E+	E+	D	D-	D-	C-
HCM2kAvgQ:	0	7	7	4	16	16	8	8	2	4	4	5

Note: Queue reported is the number of cars per lane.

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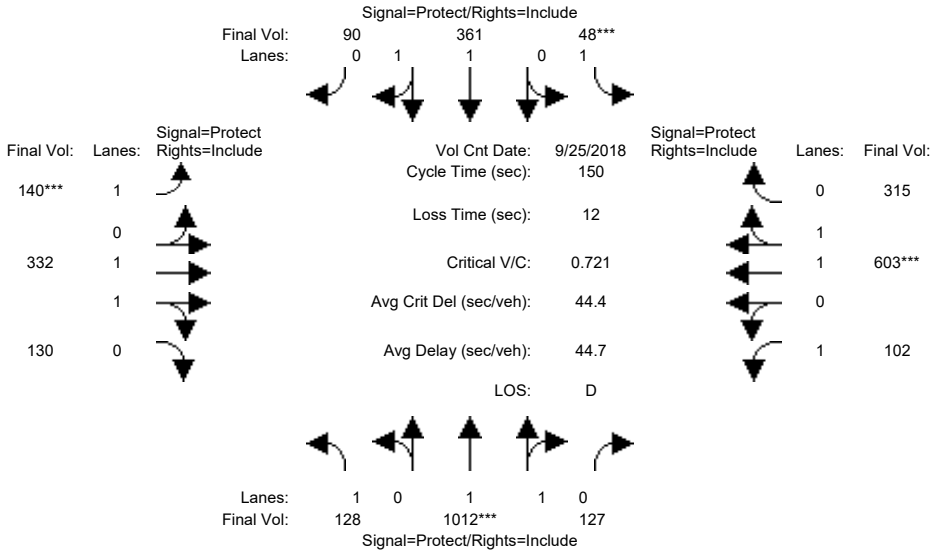
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing AM

Intersection #5: Shoreline Blvd. & Middlefield Rd.



Street Name:	Shoreline Boulevard						Middlefield Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 <<												
Base Vol:	128	1012	127	48	361	90	140	332	130	102	603	315
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	128	1012	127	48	361	90	140	332	130	102	603	315
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	128	1012	127	48	361	90	140	332	130	102	603	315
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	128	1012	127	48	361	90	140	332	130	102	603	315
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	128	1012	127	48	361	90	140	332	130	102	603	315
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	128	1012	127	48	361	90	140	332	130	102	603	315
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	0.98	0.95	0.92	0.98	0.95	0.92	0.99	0.95
Lanes:	1.00	1.77	0.23	1.00	1.59	0.41	1.00	1.42	0.58	1.00	1.29	0.71
Final Sat.:	1750	3287	413	1750	2961	738	1750	2658	1041	1750	2429	1269
Capacity Analysis Module:												
Vol/Sat:	0.07	0.31	0.31	0.03	0.12	0.12	0.08	0.12	0.12	0.06	0.25	0.25
Crit Moves:		****			****			****			****	
Green Time:	26.4	63.4	63.4	7.0	44.0	44.0	16.5	46.1	46.1	21.5	51.1	51.1
Volume/Cap:	0.42	0.73	0.73	0.59	0.42	0.42	0.73	0.41	0.41	0.41	0.73	0.73
Delay/Veh:	55.9	37.9	37.9	80.8	42.9	42.9	77.7	41.4	41.4	59.5	45.5	45.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	55.9	37.9	37.9	80.8	42.9	42.9	77.7	41.4	41.4	59.5	45.5	45.5
LOS by Move:	E+	D+	D+	F	D	D	E-	D	D	E+	D	D
HCM2kAvgQ:	6	23	23	2	8	8	8	9	9	5	20	20

Note: Queue reported is the number of cars per lane.

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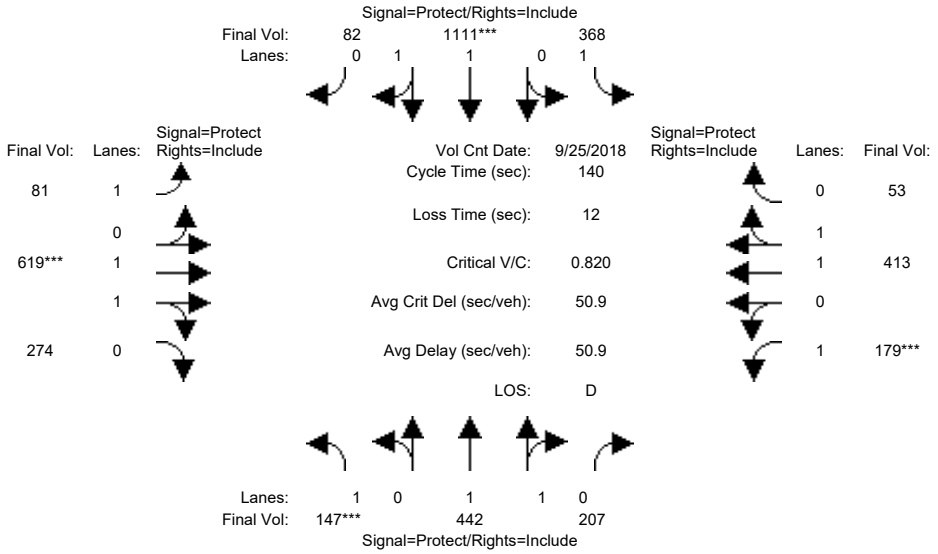
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing PM

Intersection #5: Shoreline Blvd. & Middlefield Rd.



Street Name:	Shoreline Boulevard						Middlefield Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 << 5:30-5:45												
Base Vol:	147	442	207	368	1111	82	81	619	274	179	413	53
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	147	442	207	368	1111	82	81	619	274	179	413	53
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	147	442	207	368	1111	82	81	619	274	179	413	53
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	147	442	207	368	1111	82	81	619	274	179	413	53
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	147	442	207	368	1111	82	81	619	274	179	413	53
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	147	442	207	368	1111	82	81	619	274	179	413	53
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.92	0.98	0.95	0.92	0.99	0.95	0.92	0.98	0.95
Lanes:	1.00	1.34	0.66	1.00	1.86	0.14	1.00	1.37	0.63	1.00	1.77	0.23
Final Sat.:	1750	2519	1180	1750	3445	254	1750	2564	1135	1750	3279	421
Capacity Analysis Module:												
Vol/Sat:	0.08	0.18	0.18	0.21	0.32	0.32	0.05	0.24	0.24	0.10	0.13	0.13
Crit Moves:	****				****			****			****	
Green Time:	14.3	31.5	31.5	37.8	55.0	55.0	16.7	41.2	41.2	17.5	42.0	42.0
Volume/Cap:	0.82	0.78	0.78	0.78	0.82	0.82	0.39	0.82	0.82	0.82	0.42	0.42
Delay/Veh:	86.6	55.7	55.7	55.3	41.9	41.9	58.2	51.0	51.0	81.0	39.5	39.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	86.6	55.7	55.7	55.3	41.9	41.9	58.2	51.0	51.0	81.0	39.5	39.5
LOS by Move:	F	E+	E+	E+	D	D	E+	D-	D-	F	D	D
HCM2kAvgQ:	9	15	15	16	24	24	4	20	20	10	8	8

Note: Queue reported is the number of cars per lane.

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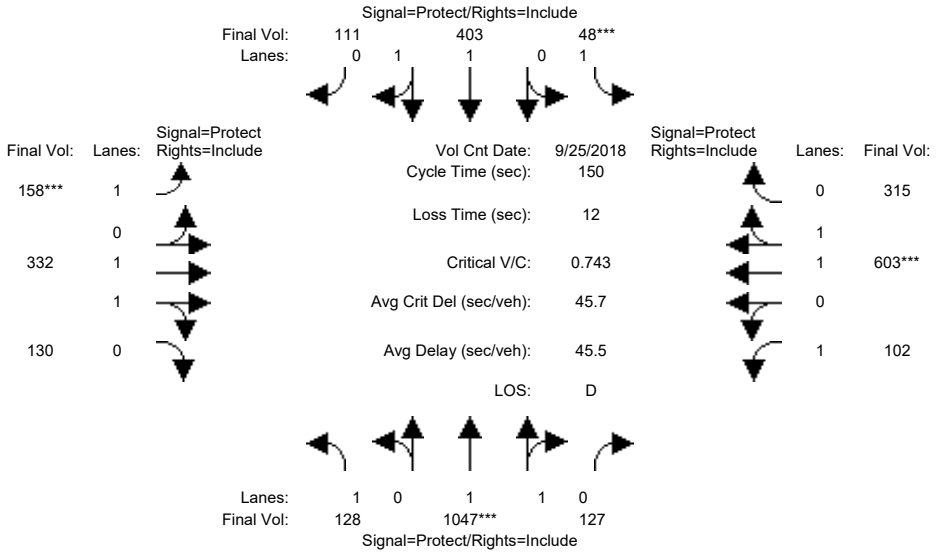
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex+Proj AM

Intersection #5: Shoreline Blvd. & Middlefield Rd.



Street Name:	Shoreline Boulevard						Middlefield Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 <<												
Base Vol:	128	1012	127	48	361	90	140	332	130	102	603	315
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	128	1012	127	48	361	90	140	332	130	102	603	315
Added Vol:	0	35	0	0	42	21	18	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	128	1047	127	48	403	111	158	332	130	102	603	315
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	128	1047	127	48	403	111	158	332	130	102	603	315
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	128	1047	127	48	403	111	158	332	130	102	603	315
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	128	1047	127	48	403	111	158	332	130	102	603	315
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	0.98	0.95	0.92	0.98	0.95	0.92	0.99	0.95
Lanes:	1.00	1.78	0.22	1.00	1.56	0.44	1.00	1.42	0.58	1.00	1.29	0.71
Final Sat.:	1750	3299	400	1750	2900	799	1750	2658	1041	1750	2429	1269
Capacity Analysis Module:												
Vol/Sat:	0.07	0.32	0.32	0.03	0.14	0.14	0.09	0.12	0.12	0.06	0.25	0.25
Crit Moves:		****		****			****				****	
Green Time:	24.3	63.4	63.4	7.0	46.1	46.1	18.0	46.1	46.1	21.5	49.6	49.6
Volume/Cap:	0.45	0.75	0.75	0.59	0.45	0.45	0.75	0.41	0.41	0.41	0.75	0.75
Delay/Veh:	58.0	38.7	38.7	80.8	42.1	42.1	77.8	41.4	41.4	59.5	47.4	47.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	58.0	38.7	38.7	80.8	42.1	42.1	77.8	41.4	41.4	59.5	47.4	47.4
LOS by Move:	E+	D+	D+	F	D	D	E-	D	D	E+	D	D
HCM2kAvgQ:	6	24	24	2	9	9	9	9	9	5	20	20

Note: Queue reported is the number of cars per lane.

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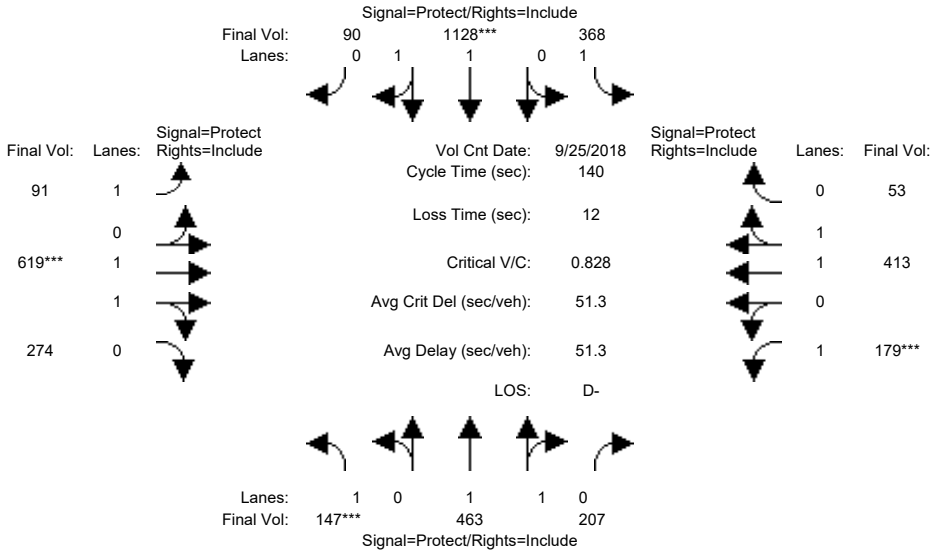
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex+Proj PM

Intersection #5: Shoreline Blvd. & Middlefield Rd.



Street Name:	Shoreline Boulevard						Middlefield Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 << 5:30-5:45												
Base Vol:	147	442	207	368	1111	82	81	619	274	179	413	53
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	147	442	207	368	1111	82	81	619	274	179	413	53
Added Vol:	0	21	0	0	17	8	10	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	147	463	207	368	1128	90	91	619	274	179	413	53
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	147	463	207	368	1128	90	91	619	274	179	413	53
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	147	463	207	368	1128	90	91	619	274	179	413	53
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	147	463	207	368	1128	90	91	619	274	179	413	53
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.92	0.98	0.95	0.92	0.99	0.95	0.92	0.98	0.95
Lanes:	1.00	1.37	0.63	1.00	1.85	0.15	1.00	1.37	0.63	1.00	1.77	0.23
Final Sat.:	1750	2556	1143	1750	3426	273	1750	2564	1135	1750	3279	421
Capacity Analysis Module:												
Vol/Sat:	0.08	0.18	0.18	0.21	0.33	0.33	0.05	0.24	0.24	0.10	0.13	0.13
Crit Moves:	****				****			****			****	
Green Time:	14.2	32.3	32.3	37.5	55.7	55.7	17.0	40.8	40.8	17.3	41.1	41.1
Volume/Cap:	0.83	0.78	0.78	0.78	0.83	0.83	0.43	0.83	0.83	0.83	0.43	0.43
Delay/Veh:	88.1	55.4	55.4	55.9	41.9	41.9	58.4	51.7	51.7	82.4	40.2	40.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	88.1	55.4	55.4	55.9	41.9	41.9	58.4	51.7	51.7	82.4	40.2	40.2
LOS by Move:	F	E+	E+	E+	D	D	E+	D-	D-	F	D	D
HCM2kAvgQ:	9	15	15	16	24	24	4	20	20	10	8	8

Note: Queue reported is the number of cars per lane.

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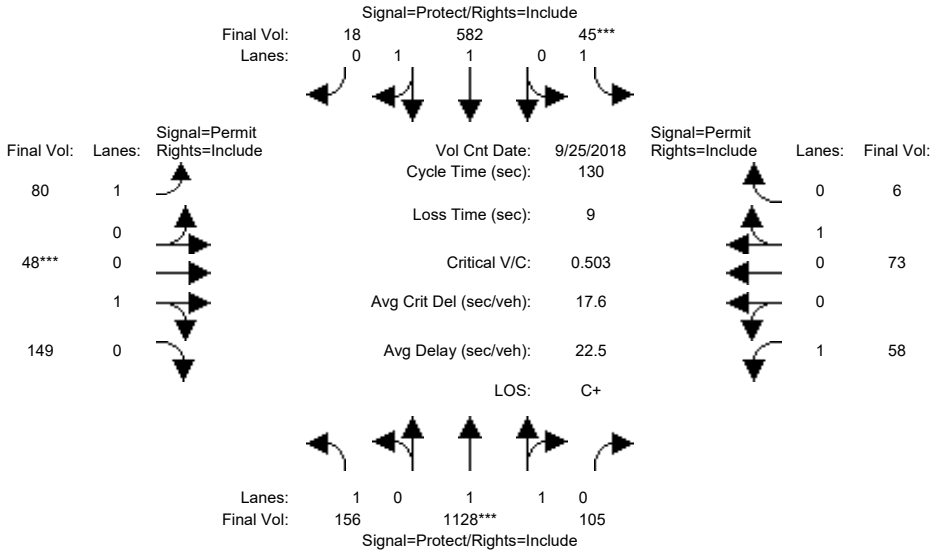
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing AM

Intersection #6: Shoreline Blvd. & Montecitio Ave.



Street Name:	Shorelline Blvd.						Montecitio Ave.					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 << 8:15-8:30												
Base Vol:	156	1128	105	45	582	18	80	48	149	58	73	6
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	156	1128	105	45	582	18	80	48	149	58	73	6
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	156	1128	105	45	582	18	80	48	149	58	73	6
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	156	1128	105	45	582	18	80	48	149	58	73	6
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	156	1128	105	45	582	18	80	48	149	58	73	6
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	156	1128	105	45	582	18	80	48	149	58	73	6
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	0.97	0.95	0.92	0.95	0.95	0.92	0.95	0.95
Lanes:	1.00	1.82	0.18	1.00	1.94	0.06	1.00	0.24	0.76	1.00	0.92	0.08
Final Sat.:	1750	3385	315	1750	3589	111	1750	439	1361	1750	1663	137
Capacity Analysis Module:												
Vol/Sat:	0.09	0.33	0.33	0.03	0.16	0.16	0.05	0.11	0.11	0.03	0.04	0.04
Crit Moves:		****		****				****				
Green Time:	32.9	85.8	85.8	7.0	59.9	59.9	28.2	28.2	28.2	28.2	28.2	28.2
Volume/Cap:	0.35	0.50	0.50	0.48	0.35	0.35	0.21	0.50	0.50	0.15	0.20	0.20
Delay/Veh:	40.3	11.4	11.4	63.5	22.7	22.7	42.1	45.8	45.8	41.4	42.0	42.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	40.3	11.4	11.4	63.5	22.7	22.7	42.1	45.8	45.8	41.4	42.0	42.0
LOS by Move:	D	B+	B+	E	C+	C+	D	D	D	D	D	D
HCM2kAvgQ:	5	12	12	3	8	8	3	8	8	2	3	3

Note: Queue reported is the number of cars per lane.

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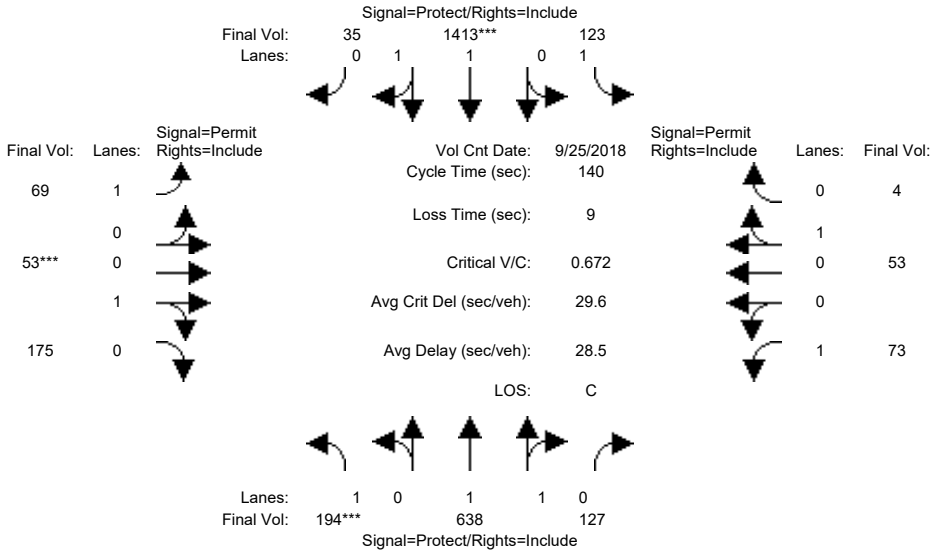
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing PM

Intersection #6: Shoreline Blvd. & Montecitio Ave.



Street Name:	Shorelline Blvd.						Montecitio Ave.					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 << 5:30-5:45												
Base Vol:	194	638	127	123	1413	35	69	53	175	73	53	4
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	194	638	127	123	1413	35	69	53	175	73	53	4
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	194	638	127	123	1413	35	69	53	175	73	53	4
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	194	638	127	123	1413	35	69	53	175	73	53	4
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	194	638	127	123	1413	35	69	53	175	73	53	4
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	194	638	127	123	1413	35	69	53	175	73	53	4
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	0.97	0.95	0.92	0.95	0.95	0.92	0.95	0.95
Lanes:	1.00	1.66	0.34	1.00	1.95	0.05	1.00	0.23	0.77	1.00	0.93	0.07
Final Sat.:	1750	3085	614	1750	3610	89	1750	418	1382	1750	1674	126
Capacity Analysis Module:												
Vol/Sat:	0.11	0.21	0.21	0.07	0.39	0.39	0.04	0.13	0.13	0.04	0.03	0.03
Crit Moves:	****				****			****				
Green Time:	23.1	78.1	78.1	26.5	81.5	81.5	26.4	26.4	26.4	26.4	26.4	26.4
Volume/Cap:	0.67	0.37	0.37	0.37	0.67	0.67	0.21	0.67	0.67	0.22	0.17	0.17
Delay/Veh:	61.0	17.4	17.4	50.2	20.9	20.9	48.3	58.0	58.0	48.4	47.8	47.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	61.0	17.4	17.4	50.2	20.9	20.9	48.3	58.0	58.0	48.4	47.8	47.8
LOS by Move:	E	B	B	D	C+	C+	D	E+	E+	D	D	D
HCM2kAvgQ:	8	9	9	5	22	22	3	11	11	3	2	2

Note: Queue reported is the number of cars per lane.

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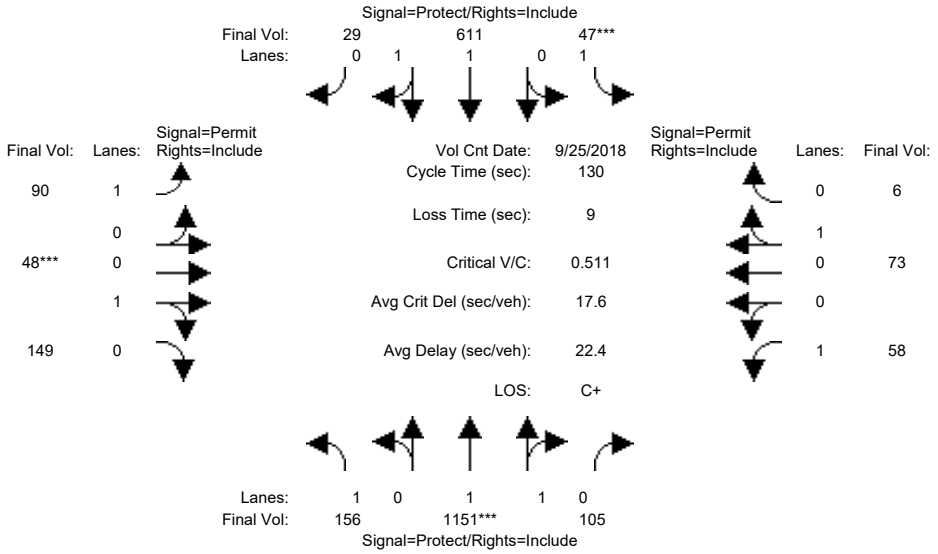
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex+Proj AM

Intersection #6: Shoreline Blvd. & Montecitio Ave.



Street Name:	Shorelline Blvd.						Montecitio Ave.					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 << 8:15-8:30												
Base Vol:	156	1128	105	45	582	18	80	48	149	58	73	6
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	156	1128	105	45	582	18	80	48	149	58	73	6
Added Vol:	0	23	0	2	29	11	10	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	156	1151	105	47	611	29	90	48	149	58	73	6
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	156	1151	105	47	611	29	90	48	149	58	73	6
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	156	1151	105	47	611	29	90	48	149	58	73	6
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	156	1151	105	47	611	29	90	48	149	58	73	6
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	0.97	0.95	0.92	0.95	0.95	0.92	0.95	0.95
Lanes:	1.00	1.83	0.17	1.00	1.91	0.09	1.00	0.24	0.76	1.00	0.92	0.08
Final Sat.:	1750	3390	309	1750	3532	168	1750	439	1361	1750	1663	137
Capacity Analysis Module:												
Vol/Sat:	0.09	0.34	0.34	0.03	0.17	0.17	0.05	0.11	0.11	0.03	0.04	0.04
Crit Moves:		****		****				****				
Green Time:	31.7	86.2	86.2	7.0	61.5	61.5	27.8	27.8	27.8	27.8	27.8	27.8
Volume/Cap:	0.37	0.51	0.51	0.50	0.37	0.37	0.24	0.51	0.51	0.16	0.21	0.21
Delay/Veh:	41.3	11.4	11.4	63.9	21.9	21.9	42.7	46.3	46.3	41.7	42.3	42.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	41.3	11.4	11.4	63.9	21.9	21.9	42.7	46.3	46.3	41.7	42.3	42.3
LOS by Move:	D	B+	B+	E	C+	C+	D	D	D	D	D	D
HCM2kAvgQ:	5	13	13	3	8	8	3	8	8	2	3	3

Note: Queue reported is the number of cars per lane.

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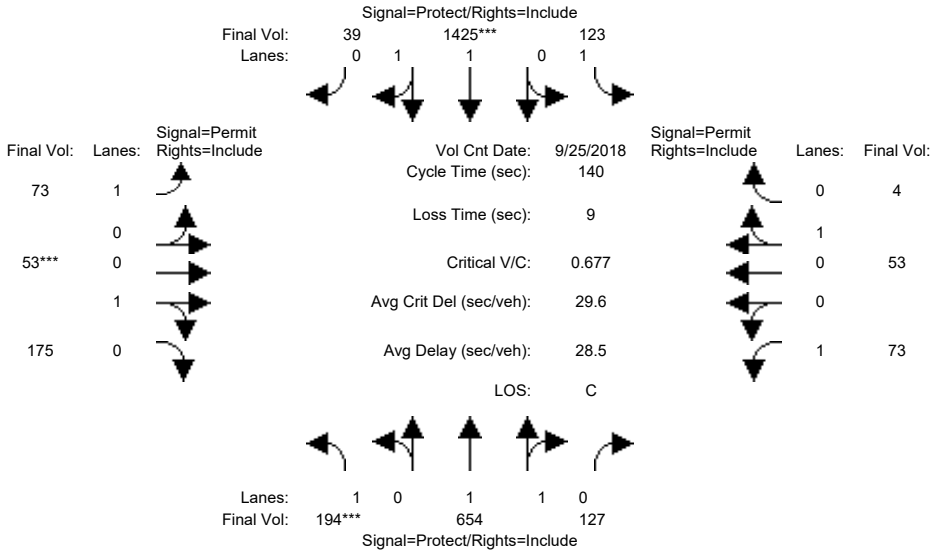
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex+Proj PM

Intersection #6: Shoreline Blvd. & Montecitio Ave.



Street Name:	Shorelline Blvd.						Montecitio Ave.					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 << 5:30-5:45												
Base Vol:	194	638	127	123	1413	35	69	53	175	73	53	4
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	194	638	127	123	1413	35	69	53	175	73	53	4
Added Vol:	0	16	0	0	12	4	4	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	194	654	127	123	1425	39	73	53	175	73	53	4
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	194	654	127	123	1425	39	73	53	175	73	53	4
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	194	654	127	123	1425	39	73	53	175	73	53	4
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	194	654	127	123	1425	39	73	53	175	73	53	4
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	0.97	0.95	0.92	0.95	0.95	0.92	0.95	0.95
Lanes:	1.00	1.67	0.33	1.00	1.95	0.05	1.00	0.23	0.77	1.00	0.93	0.07
Final Sat.:	1750	3098	602	1750	3601	99	1750	418	1382	1750	1674	126
Capacity Analysis Module:												
Vol/Sat:	0.11	0.21	0.21	0.07	0.40	0.40	0.04	0.13	0.13	0.04	0.03	0.03
Crit Moves:	****				****			****				
Green Time:	22.9	78.6	78.6	26.2	81.9	81.9	26.2	26.2	26.2	26.2	26.2	26.2
Volume/Cap:	0.68	0.38	0.38	0.38	0.68	0.68	0.22	0.68	0.68	0.22	0.17	0.17
Delay/Veh:	61.4	17.2	17.2	50.5	20.8	20.8	48.6	58.4	58.4	48.6	48.0	48.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	61.4	17.2	17.2	50.5	20.8	20.8	48.6	58.4	58.4	48.6	48.0	48.0
LOS by Move:	E	B	B	D	C+	C+	D	E+	E+	D	D	D
HCM2kAvgQ:	8	9	9	5	22	22	3	11	11	3	2	2

Note: Queue reported is the number of cars per lane.

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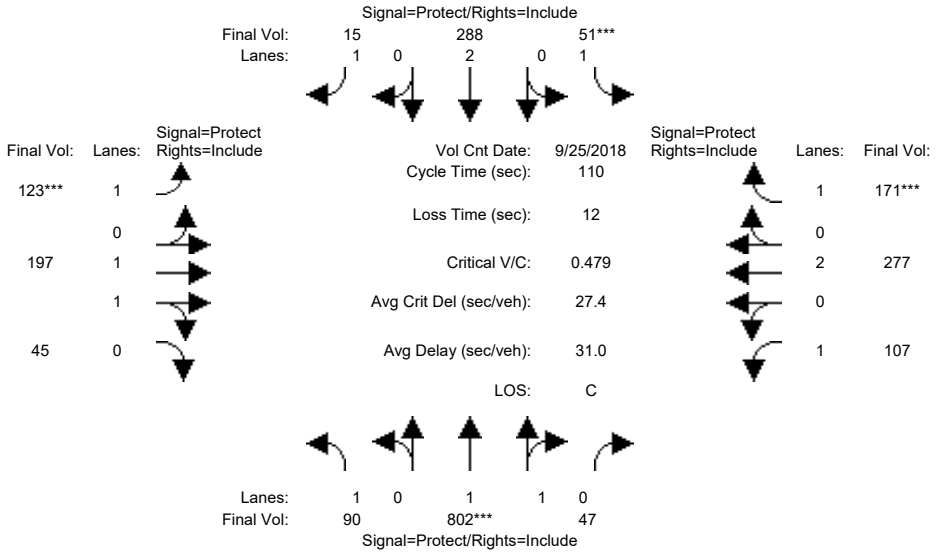
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing AM

Intersection #7: Rengstorff Ave & Middlefield Rd



Street Name:	Rengstorff Ave						Middlefield Rd					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	10	10	7	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 << 8:30-8:45												
Base Vol:	90	802	47	51	288	15	123	197	45	107	277	171
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	90	802	47	51	288	15	123	197	45	107	277	171
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	90	802	47	51	288	15	123	197	45	107	277	171
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	90	802	47	51	288	15	123	197	45	107	277	171
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	90	802	47	51	288	15	123	197	45	107	277	171
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	90	802	47	51	288	15	123	197	45	107	277	171
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	1.00	0.92	0.92	0.98	0.95	0.92	1.00	0.92
Lanes:	1.00	1.89	0.11	1.00	2.00	1.00	1.00	1.62	0.38	1.00	2.00	1.00
Final Sat.:	1750	3495	205	1750	3800	1750	1750	3011	688	1750	3800	1750
Capacity Analysis Module:												
Vol/Sat:	0.05	0.23	0.23	0.03	0.08	0.01	0.07	0.07	0.07	0.06	0.07	0.10
Crit Moves:		****		****			****					****
Green Time:	25.0	50.8	50.8	10.0	35.8	35.8	15.6	21.9	21.9	15.3	21.6	21.6
Volume/Cap:	0.23	0.50	0.50	0.32	0.23	0.03	0.50	0.33	0.33	0.44	0.37	0.50
Delay/Veh:	34.9	20.9	20.9	48.0	27.2	25.3	45.2	38.0	38.0	44.7	38.6	40.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	34.9	20.9	20.9	48.0	27.2	25.3	45.2	38.0	38.0	44.7	38.6	40.5
LOS by Move:	C-	C+	C+	D	C	C	D	D+	D+	D	D+	D
HCM2kAvgQ:	3	10	10	2	4	0	5	4	4	4	4	5

Note: Queue reported is the number of cars per lane.

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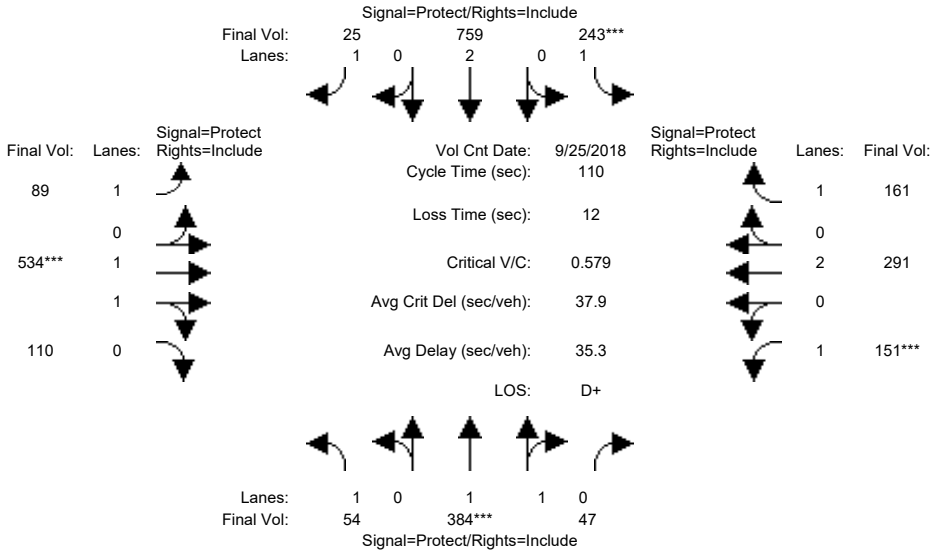
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing PM

Intersection #7: Rengstorff Ave & Middlefield Rd



Street Name:	Rengstorff Ave						Middlefield Rd					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	10	10	7	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 << 5:15-5:30												
Base Vol:	54	384	47	243	759	25	89	534	110	151	291	161
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	54	384	47	243	759	25	89	534	110	151	291	161
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	54	384	47	243	759	25	89	534	110	151	291	161
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	54	384	47	243	759	25	89	534	110	151	291	161
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	54	384	47	243	759	25	89	534	110	151	291	161
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	54	384	47	243	759	25	89	534	110	151	291	161
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	1.00	0.92	0.92	0.98	0.95	0.92	1.00	0.92
Lanes:	1.00	1.78	0.22	1.00	2.00	1.00	1.00	1.65	0.35	1.00	2.00	1.00
Final Sat.:	1750	3296	403	1750	3800	1750	1750	3068	632	1750	3800	1750
Capacity Analysis Module:												
Vol/Sat:	0.03	0.12	0.12	0.14	0.20	0.01	0.05	0.17	0.17	0.09	0.08	0.09
Crit Moves:		****		****				****		****		
Green Time:	11.7	22.1	22.1	26.4	36.8	36.8	20.2	33.1	33.1	16.4	29.2	29.2
Volume/Cap:	0.29	0.58	0.58	0.58	0.60	0.04	0.28	0.58	0.58	0.58	0.29	0.35
Delay/Veh:	46.2	40.9	40.9	38.9	31.2	24.7	39.1	33.3	33.3	46.8	32.3	33.1
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	46.2	40.9	40.9	38.9	31.2	24.7	39.1	33.3	33.3	46.8	32.3	33.1
LOS by Move:	D	D	D	D+	C	C	D	C-	C-	D	C-	C-
HCM2kAvgQ:	2	7	7	8	11	1	3	10	10	5	4	5

Note: Queue reported is the number of cars per lane.

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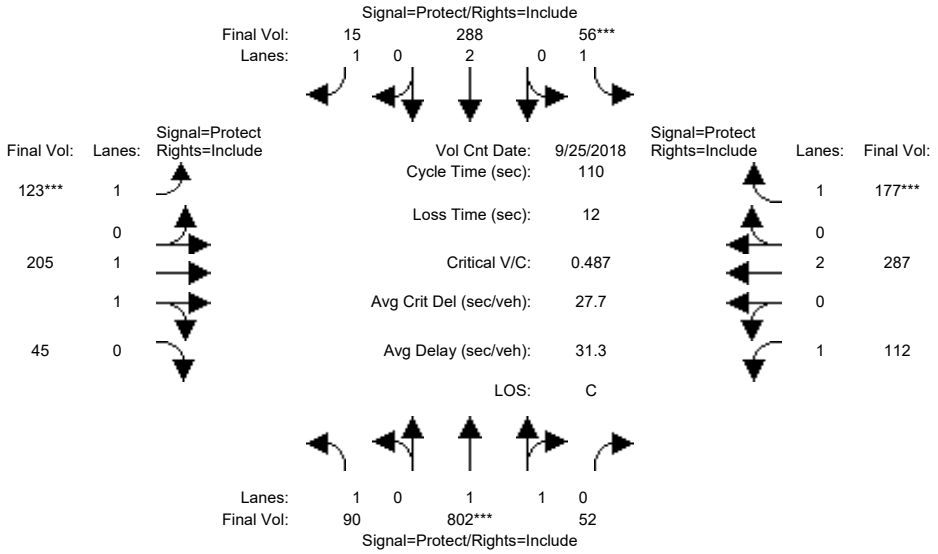
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex+Proj AM

Intersection #7: Rengstorff Ave & Middlefield Rd



Street Name:	Rengstorff Ave						Middlefield Rd					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	10	10	7	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 << 8:30-8:45												
Base Vol:	90	802	47	51	288	15	123	197	45	107	277	171
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	90	802	47	51	288	15	123	197	45	107	277	171
Added Vol:	0	0	5	5	0	0	0	8	0	5	10	6
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	90	802	52	56	288	15	123	205	45	112	287	177
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	90	802	52	56	288	15	123	205	45	112	287	177
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	90	802	52	56	288	15	123	205	45	112	287	177
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	90	802	52	56	288	15	123	205	45	112	287	177
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	1.00	0.92	0.92	0.98	0.95	0.92	1.00	0.92
Lanes:	1.00	1.87	0.13	1.00	2.00	1.00	1.00	1.63	0.37	1.00	2.00	1.00
Final Sat.:	1750	3475	225	1750	3800	1750	1750	3034	666	1750	3800	1750
Capacity Analysis Module:												
Vol/Sat:	0.05	0.23	0.23	0.03	0.08	0.01	0.07	0.07	0.07	0.06	0.08	0.10
Crit Moves:		****		****			****					****
Green Time:	24.9	50.5	50.5	10.0	35.6	35.6	15.4	22.0	22.0	15.5	22.1	22.1
Volume/Cap:	0.23	0.50	0.50	0.35	0.23	0.03	0.50	0.34	0.34	0.45	0.38	0.50
Delay/Veh:	35.0	21.2	21.2	48.3	27.3	25.4	45.4	38.0	38.0	44.7	38.3	40.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	35.0	21.2	21.2	48.3	27.3	25.4	45.4	38.0	38.0	44.7	38.3	40.2
LOS by Move:	C-	C+	C+	D	C	C	D	D+	D+	D	D+	D
HCM2kAvgQ:	3	10	10	2	4	0	5	4	4	4	4	6

Note: Queue reported is the number of cars per lane.

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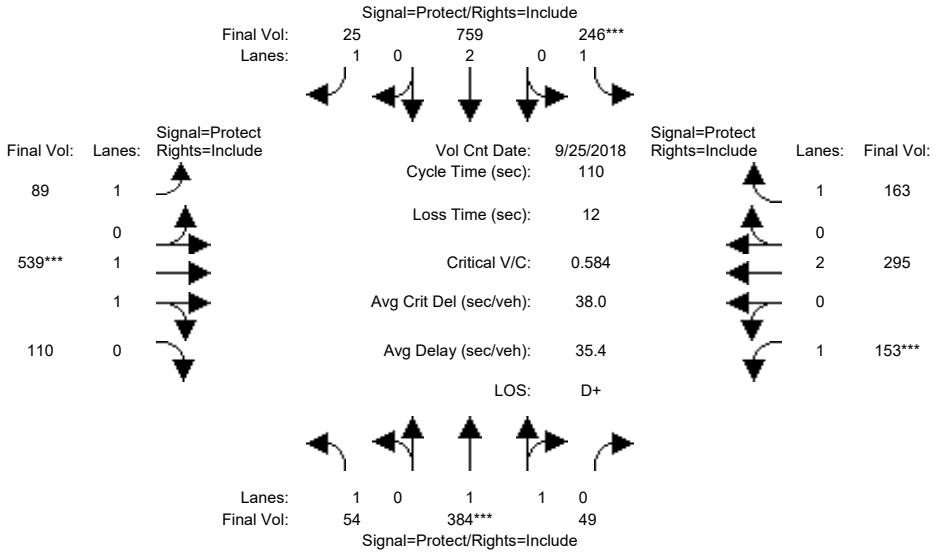
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex+Proj PM

Intersection #7: Rengstorff Ave & Middlefield Rd



Street Name:	Rengstorff Ave						Middlefield Rd					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	10	10	7	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 << 5:15-5:30												
Base Vol:	54	384	47	243	759	25	89	534	110	151	291	161
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	54	384	47	243	759	25	89	534	110	151	291	161
Added Vol:	0	0	2	3	0	0	0	5	0	2	4	2
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	54	384	49	246	759	25	89	539	110	153	295	163
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	54	384	49	246	759	25	89	539	110	153	295	163
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	54	384	49	246	759	25	89	539	110	153	295	163
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	54	384	49	246	759	25	89	539	110	153	295	163
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	1.00	0.92	0.92	0.98	0.95	0.92	1.00	0.92
Lanes:	1.00	1.77	0.23	1.00	2.00	1.00	1.00	1.65	0.35	1.00	2.00	1.00
Final Sat.:	1750	3281	419	1750	3800	1750	1750	3072	627	1750	3800	1750
Capacity Analysis Module:												
Vol/Sat:	0.03	0.12	0.12	0.14	0.20	0.01	0.05	0.18	0.18	0.09	0.08	0.09
Crit Moves:		****		****				****		****		
Green Time:	11.7	22.0	22.0	26.5	36.8	36.8	20.1	33.0	33.0	16.5	29.4	29.4
Volume/Cap:	0.29	0.58	0.58	0.58	0.60	0.04	0.28	0.58	0.58	0.58	0.29	0.35
Delay/Veh:	46.2	41.0	41.0	39.0	31.2	24.7	39.2	33.5	33.5	46.9	32.2	33.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	46.2	41.0	41.0	39.0	31.2	24.7	39.2	33.5	33.5	46.9	32.2	33.0
LOS by Move:	D	D	D	D	C	C	D	C-	C-	D	C-	C-
HCM2kAvgQ:	2	7	7	9	11	1	3	10	10	5	4	5

Note: Queue reported is the number of cars per lane.

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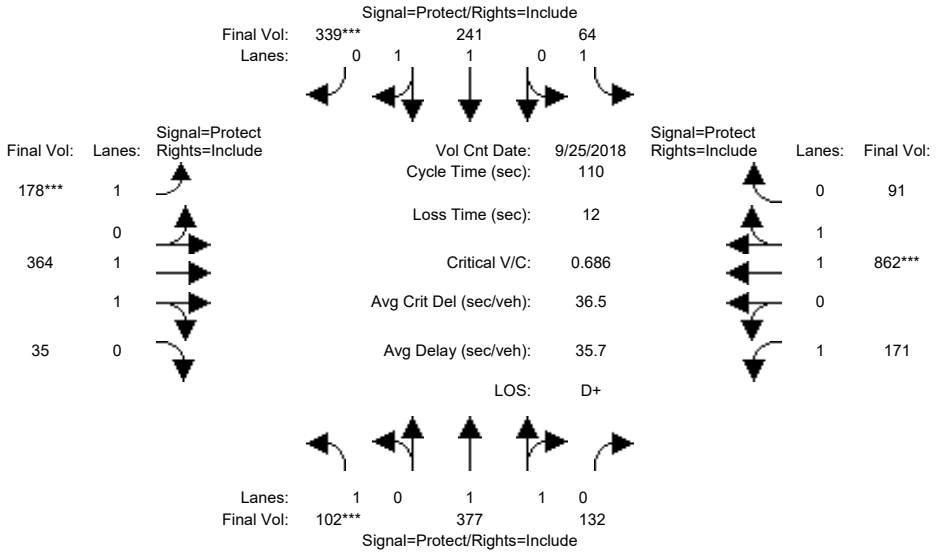
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing AM

Intersection #8: Moffett Blvd & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 << 8:30-8:45												
Base Vol:	102	377	132	64	241	339	178	364	35	171	862	91
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	102	377	132	64	241	339	178	364	35	171	862	91
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	102	377	132	64	241	339	178	364	35	171	862	91
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	102	377	132	64	241	339	178	364	35	171	862	91
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	102	377	132	64	241	339	178	364	35	171	862	91
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	102	377	132	64	241	339	178	364	35	171	862	91
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	1.00	0.92	0.92	0.98	0.95	0.92	0.98	0.95
Lanes:	1.00	1.47	0.53	1.00	1.00	1.00	1.00	1.82	0.18	1.00	1.80	0.20
Final Sat.:	1750	2740	959	1750	1900	1750	1750	3375	325	1750	3346	353
Capacity Analysis Module:												
Vol/Sat:	0.06	0.14	0.14	0.04	0.13	0.19	0.10	0.11	0.11	0.10	0.26	0.26
Crit Moves:	****					****	****				****	
Green Time:	9.3	27.6	27.6	12.8	31.1	31.1	16.3	30.2	30.2	27.4	41.3	41.3
Volume/Cap:	0.69	0.55	0.55	0.31	0.45	0.69	0.69	0.39	0.39	0.39	0.69	0.69
Delay/Veh:	61.5	36.5	36.5	45.5	32.7	37.5	51.9	32.7	32.7	35.0	30.4	30.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	61.5	36.5	36.5	45.5	32.7	37.5	51.9	32.7	32.7	35.0	30.4	30.4
LOS by Move:	E	D+	D+	D	C-	D+	D-	C-	C-	C-	C	C
HCM2kAvgQ:	4	8	8	2	7	12	7	6	6	5	14	14

Note: Queue reported is the number of cars per lane.

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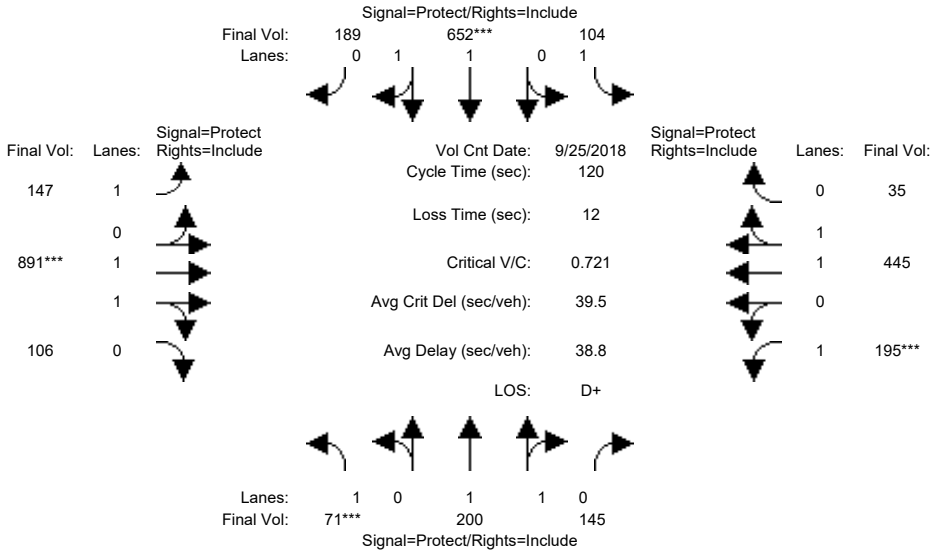
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing PM

Intersection #8: Moffett Blvd & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 << 5:45-6:00												
Base Vol:	71	200	145	104	652	189	147	891	106	195	445	35
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	71	200	145	104	652	189	147	891	106	195	445	35
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	71	200	145	104	652	189	147	891	106	195	445	35
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	71	200	145	104	652	189	147	891	106	195	445	35
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	71	200	145	104	652	189	147	891	106	195	445	35
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	71	200	145	104	652	189	147	891	106	195	445	35
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.92	0.98	0.95	0.92	0.98	0.95	0.92	0.98	0.95
Lanes:	1.00	1.14	0.86	1.00	1.54	0.46	1.00	1.78	0.22	1.00	1.85	0.15
Final Sat.:	1750	2144	1554	1750	2868	831	1750	3306	393	1750	3430	270
Capacity Analysis Module:												
Vol/Sat:	0.04	0.09	0.09	0.06	0.23	0.23	0.08	0.27	0.27	0.11	0.13	0.13
Crit Moves:	****				****			****			****	
Green Time:	7.0	27.3	27.3	17.4	37.8	37.8	24.9	44.7	44.7	18.5	38.4	38.4
Volume/Cap:	0.70	0.41	0.41	0.41	0.72	0.72	0.41	0.72	0.72	0.72	0.41	0.41
Delay/Veh:	74.3	39.8	39.8	47.7	38.7	38.7	41.9	34.2	34.2	57.6	32.1	32.1
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	74.3	39.8	39.8	47.7	38.7	38.7	41.9	34.2	34.2	57.6	32.1	32.1
LOS by Move:	E	D	D	D	D+	D+	D	C-	C-	E+	C-	C-
HCM2kAvgQ:	3	5	5	4	15	15	5	17	17	8	7	7

Note: Queue reported is the number of cars per lane.

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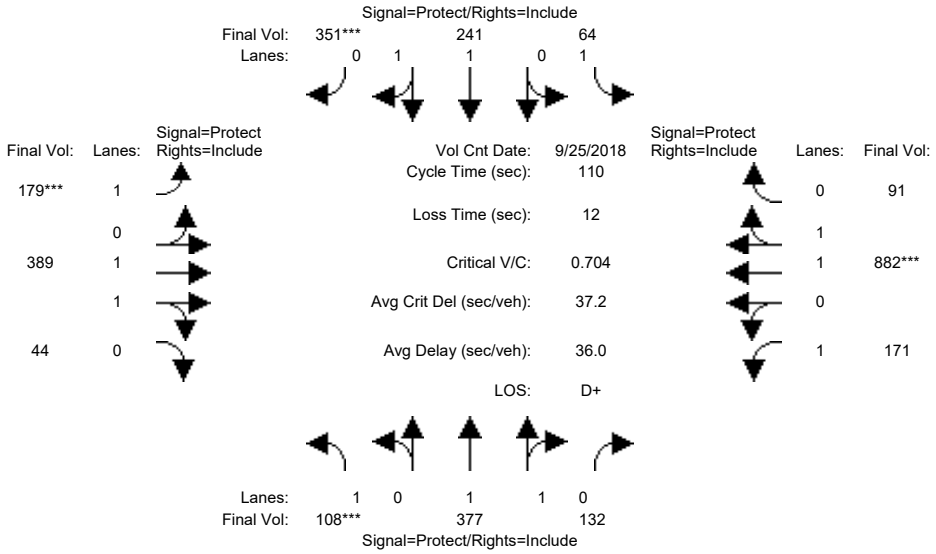
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex+Proj AM

Intersection #8: Moffett Blvd & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 << 8:30-8:45												
Base Vol:	102	377	132	64	241	339	178	364	35	171	862	91
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	102	377	132	64	241	339	178	364	35	171	862	91
Added Vol:	6	0	0	0	0	12	1	25	9	0	20	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	108	377	132	64	241	351	179	389	44	171	882	91
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	108	377	132	64	241	351	179	389	44	171	882	91
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	108	377	132	64	241	351	179	389	44	171	882	91
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	108	377	132	64	241	351	179	389	44	171	882	91
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	1.00	0.92	0.92	0.98	0.95	0.92	0.98	0.95
Lanes:	1.00	1.47	0.53	1.00	1.00	1.00	1.00	1.79	0.21	1.00	1.81	0.19
Final Sat.:	1750	2740	959	1750	1900	1750	1750	3324	376	1750	3354	346
Capacity Analysis Module:												
Vol/Sat:	0.06	0.14	0.14	0.04	0.13	0.20	0.10	0.12	0.12	0.10	0.26	0.26
Crit Moves:	****					****	****				****	
Green Time:	9.6	28.0	28.0	13.0	31.3	31.3	16.0	31.1	31.1	26.0	41.1	41.1
Volume/Cap:	0.70	0.54	0.54	0.31	0.45	0.70	0.70	0.41	0.41	0.41	0.70	0.70
Delay/Veh:	62.6	36.1	36.1	45.3	32.5	37.9	53.4	32.3	32.3	36.3	31.0	31.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	62.6	36.1	36.1	45.3	32.5	37.9	53.4	32.3	32.3	36.3	31.0	31.0
LOS by Move:	E	D+	D+	D	C-	D+	D-	C-	C-	D+	C	C
HCM2kAvgQ:	4	7	7	2	7	13	8	6	6	5	14	14

Note: Queue reported is the number of cars per lane.

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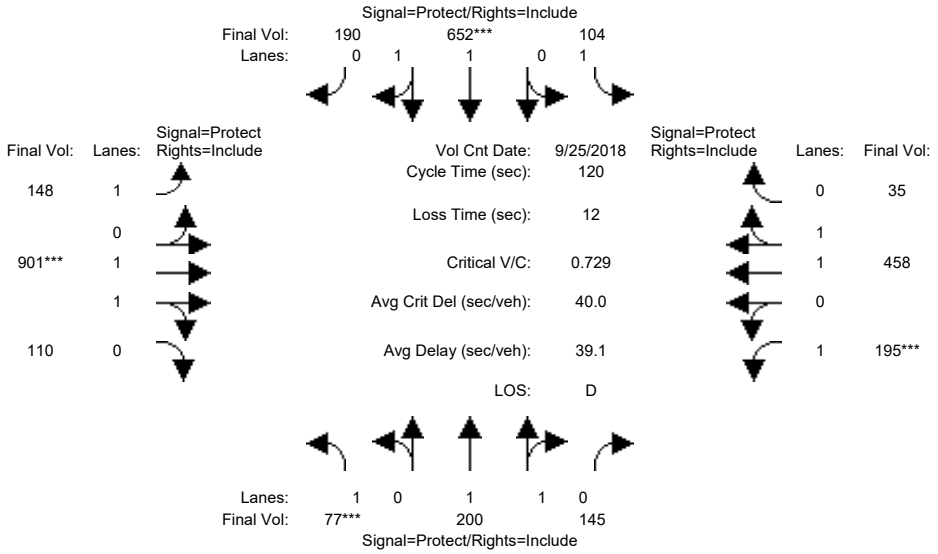
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex+Proj PM

Intersection #8: Moffett Blvd & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 << 5:45-6:00												
Base Vol:	71	200	145	104	652	189	147	891	106	195	445	35
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	71	200	145	104	652	189	147	891	106	195	445	35
Added Vol:	6	0	0	0	0	1	1	10	4	0	13	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	77	200	145	104	652	190	148	901	110	195	458	35
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	77	200	145	104	652	190	148	901	110	195	458	35
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	77	200	145	104	652	190	148	901	110	195	458	35
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	77	200	145	104	652	190	148	901	110	195	458	35
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.92	0.98	0.95	0.92	0.98	0.95	0.92	0.98	0.95
Lanes:	1.00	1.14	0.86	1.00	1.54	0.46	1.00	1.78	0.22	1.00	1.85	0.15
Final Sat.:	1750	2144	1554	1750	2864	835	1750	3297	403	1750	3437	263
Capacity Analysis Module:												
Vol/Sat:	0.04	0.09	0.09	0.06	0.23	0.23	0.08	0.27	0.27	0.11	0.13	0.13
Crit Moves:	****				****			****			****	
Green Time:	7.2	27.3	27.3	17.4	37.5	37.5	24.6	45.0	45.0	18.3	38.7	38.7
Volume/Cap:	0.73	0.41	0.41	0.41	0.73	0.73	0.41	0.73	0.73	0.73	0.41	0.41
Delay/Veh:	77.9	39.8	39.8	47.7	39.1	39.1	42.2	34.3	34.3	58.2	32.0	32.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	77.9	39.8	39.8	47.7	39.1	39.1	42.2	34.3	34.3	58.2	32.0	32.0
LOS by Move:	E-	D	D	D	D	D	D	C-	C-	E+	C	C
HCM2kAvgQ:	3	5	5	4	15	15	5	17	17	8	7	7

Note: Queue reported is the number of cars per lane.

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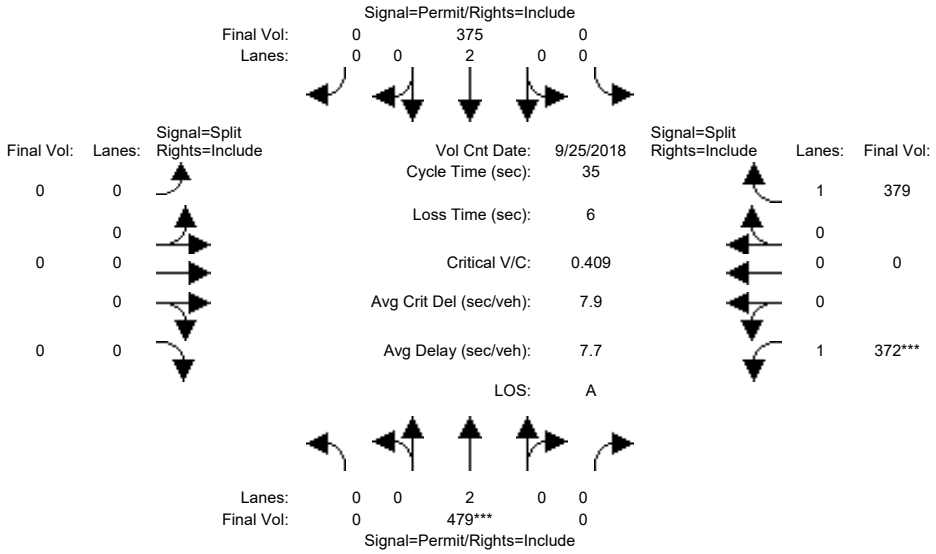
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing AM

Intersection #9: Moffett Blvd & SR 85 NB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	10	0	0	10	0	0	0	0	10	0	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 << 7:45-8:00												
Base Vol:	0	479	0	0	375	0	0	0	0	372	0	379
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	479	0	0	375	0	0	0	0	372	0	379
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	479	0	0	375	0	0	0	0	372	0	379
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	479	0	0	375	0	0	0	0	372	0	379
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	479	0	0	375	0	0	0	0	372	0	379
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	479	0	0	375	0	0	0	0	372	0	379
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	0	3800	0	0	3800	0	0	0	0	1750	0	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.13	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.21	0.00	0.22
Crit Moves:		****								****		
Green Time:	0.0	10.7	0.0	0.0	10.7	0.0	0.0	0.0	0.0	18.3	0.0	18.3
Volume/Cap:	0.00	0.41	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.41	0.00	0.41
Delay/Veh:	0.0	9.9	0.0	0.0	9.5	0.0	0.0	0.0	0.0	5.3	0.0	5.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	9.9	0.0	0.0	9.5	0.0	0.0	0.0	0.0	5.3	0.0	5.4
LOS by Move:	A	A	A	A	A	A	A	A	A	A	A	A
HCM2kAvgQ:	0	3	0	0	2	0	0	0	0	3	0	3

Note: Queue reported is the number of cars per lane.

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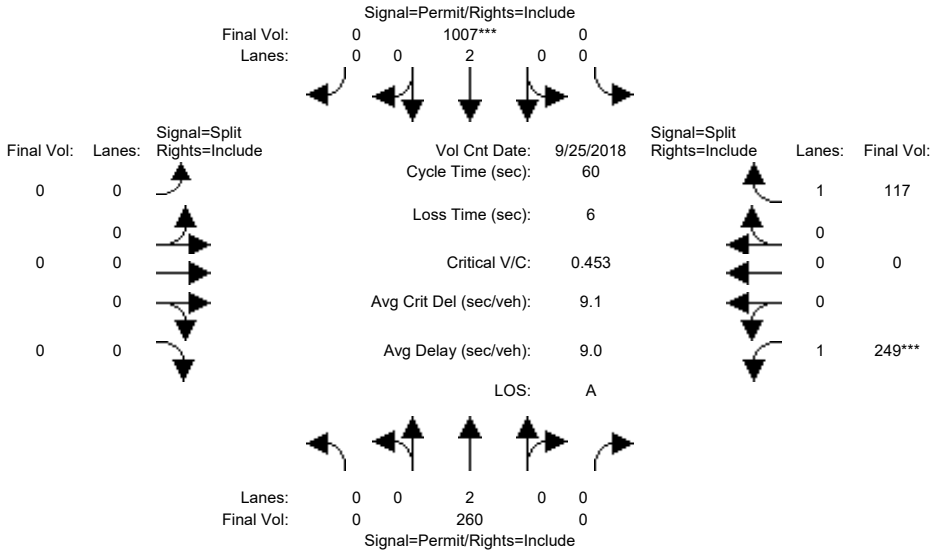
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing PM

Intersection #9: Moffett Blvd & SR 85 NB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	10	0	0	10	0	0	0	0	10	0	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 << 5:30-5:45												
Base Vol:	0	260	0	0	1007	0	0	0	0	249	0	117
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	260	0	0	1007	0	0	0	0	249	0	117
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	260	0	0	1007	0	0	0	0	249	0	117
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	260	0	0	1007	0	0	0	0	249	0	117
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	260	0	0	1007	0	0	0	0	249	0	117
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	260	0	0	1007	0	0	0	0	249	0	117
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	0	3800	0	0	3800	0	0	0	0	1750	0	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.07	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.14	0.00	0.07
Crit Moves:					****					****		
Green Time:	0.0	35.1	0.0	0.0	35.1	0.0	0.0	0.0	0.0	18.9	0.0	18.9
Volume/Cap:	0.00	0.12	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.45	0.00	0.21
Delay/Veh:	0.0	5.6	0.0	0.0	7.2	0.0	0.0	0.0	0.0	17.0	0.0	15.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	5.6	0.0	0.0	7.2	0.0	0.0	0.0	0.0	17.0	0.0	15.3
LOS by Move:	A	A	A	A	A	A	A	A	A	B	A	B
HCM2kAvgQ:	0	1	0	0	5	0	0	0	0	4	0	2

Note: Queue reported is the number of cars per lane.

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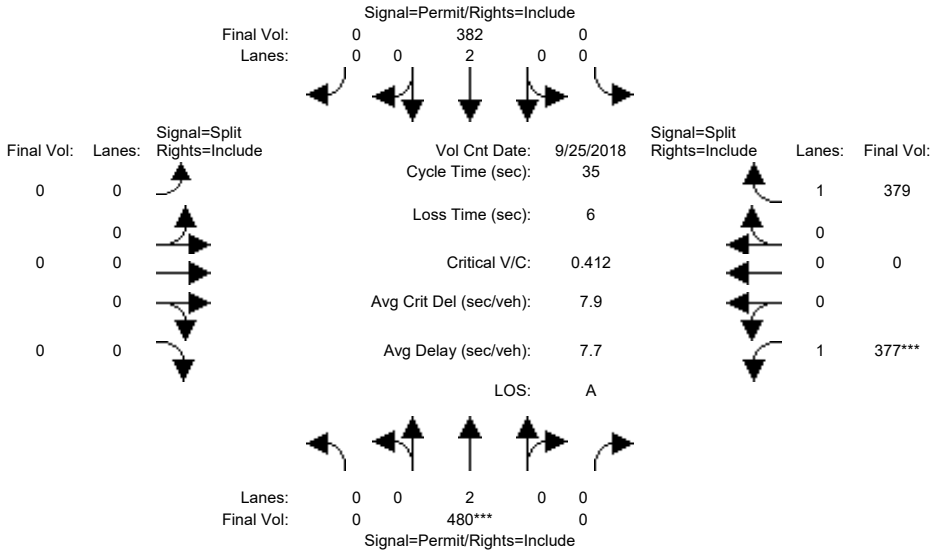
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex+Proj AM

Intersection #9: Moffett Blvd & SR 85 NB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	10	0	0	10	0	0	0	0	10	0	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 << 7:45-8:00												
Base Vol:	0	479	0	0	375	0	0	0	0	372	0	379
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	479	0	0	375	0	0	0	0	372	0	379
Added Vol:	0	1	0	0	7	0	0	0	0	5	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	480	0	0	382	0	0	0	0	377	0	379
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	480	0	0	382	0	0	0	0	377	0	379
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	480	0	0	382	0	0	0	0	377	0	379
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	480	0	0	382	0	0	0	0	377	0	379
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	0	3800	0	0	3800	0	0	0	0	1750	0	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.13	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.22	0.00	0.22
Crit Moves:		****								****		
Green Time:	0.0	10.7	0.0	0.0	10.7	0.0	0.0	0.0	0.0	18.3	0.0	18.3
Volume/Cap:	0.00	0.41	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.41	0.00	0.41
Delay/Veh:	0.0	9.9	0.0	0.0	9.6	0.0	0.0	0.0	0.0	5.4	0.0	5.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	9.9	0.0	0.0	9.6	0.0	0.0	0.0	0.0	5.4	0.0	5.4
LOS by Move:	A	A	A	A	A	A	A	A	A	A	A	A
HCM2kAvgQ:	0	3	0	0	2	0	0	0	0	3	0	3

Note: Queue reported is the number of cars per lane.

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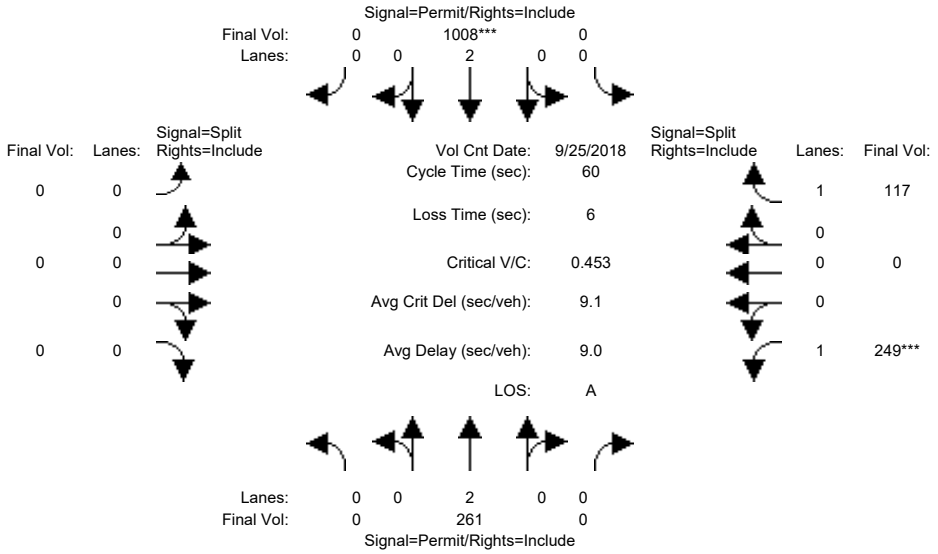
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex+Proj PM

Intersection #9: Moffett Blvd & SR 85 NB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	10	0	0	10	0	0	0	0	10	0	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 << 5:30-5:45												
Base Vol:	0	260	0	0	1007	0	0	0	0	249	0	117
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	260	0	0	1007	0	0	0	0	249	0	117
Added Vol:	0	1	0	0	1	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	261	0	0	1008	0	0	0	0	249	0	117
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	261	0	0	1008	0	0	0	0	249	0	117
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	261	0	0	1008	0	0	0	0	249	0	117
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	261	0	0	1008	0	0	0	0	249	0	117
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	0	3800	0	0	3800	0	0	0	0	1750	0	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.07	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.14	0.00	0.07
Crit Moves:					****					****		
Green Time:	0.0	35.1	0.0	0.0	35.1	0.0	0.0	0.0	0.0	18.9	0.0	18.9
Volume/Cap:	0.00	0.12	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.45	0.00	0.21
Delay/Veh:	0.0	5.6	0.0	0.0	7.2	0.0	0.0	0.0	0.0	17.0	0.0	15.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	5.6	0.0	0.0	7.2	0.0	0.0	0.0	0.0	17.0	0.0	15.3
LOS by Move:	A	A	A	A	A	A	A	A	A	B	A	B
HCM2kAvgQ:	0	1	0	0	5	0	0	0	0	4	0	2

Note: Queue reported is the number of cars per lane.

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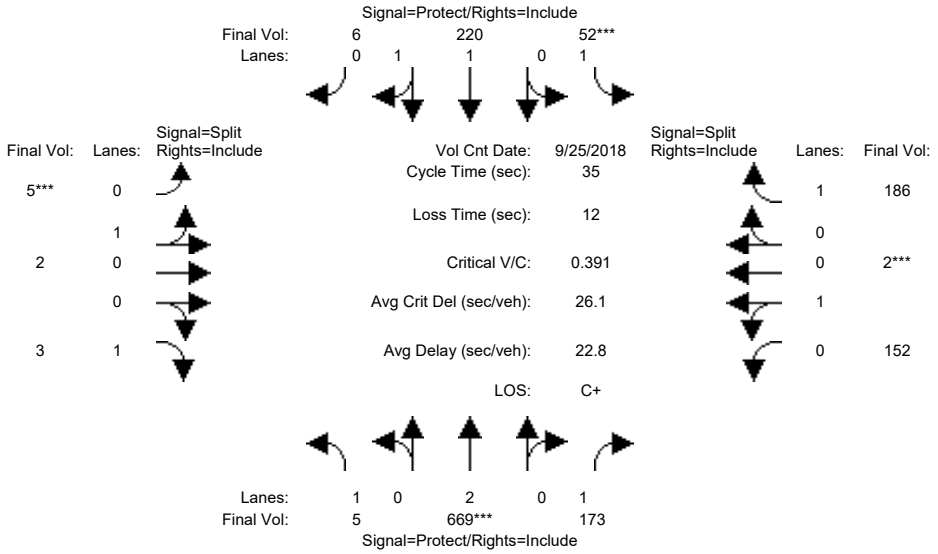
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing AM

Intersection #10: Moffett Blvd & Leong Dr



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 <<												
Base Vol:	5	669	173	52	220	6	5	2	3	152	2	186
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	5	669	173	52	220	6	5	2	3	152	2	186
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	5	669	173	52	220	6	5	2	3	152	2	186
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	5	669	173	52	220	6	5	2	3	152	2	186
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	5	669	173	52	220	6	5	2	3	152	2	186
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	5	669	173	52	220	6	5	2	3	152	2	186
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	0.97	0.95	0.95	0.95	0.92	0.95	0.95	0.92
Lanes:	1.00	2.00	1.00	1.00	1.95	0.05	0.71	0.29	1.00	0.99	0.01	1.00
Final Sat.:	1750	3800	1750	1750	3602	98	1286	514	1750	1777	23	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.18	0.10	0.03	0.06	0.06	0.00	0.00	0.00	0.09	0.09	0.11
Crit Moves:		****		****			****				****	
Green Time:	5.0	7.1	7.1	5.0	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
Volume/Cap:	0.02	0.86	0.48	0.21	0.30	0.30	0.02	0.02	0.01	0.42	0.42	0.52
Delay/Veh:	18.1	28.7	18.3	19.0	16.8	16.8	15.6	15.6	15.6	17.7	17.7	18.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	18.1	28.7	18.3	19.0	16.8	16.8	15.6	15.6	15.6	17.7	17.7	18.7
LOS by Move:	B-	C	B-	B-	B	B	B	B	B	B	B	B-
HCM2kAvgQ:	0	6	2	1	1	1	0	0	0	3	3	3

Note: Queue reported is the number of cars per lane.

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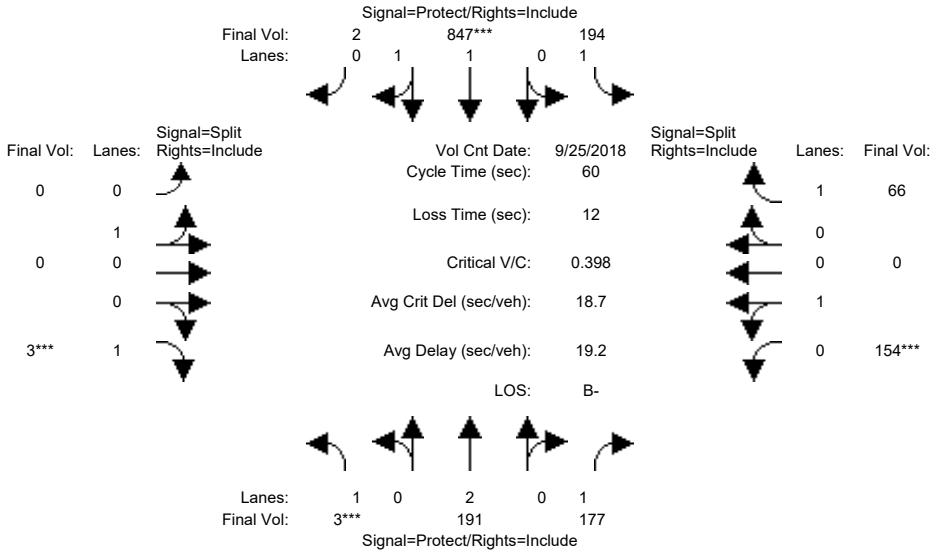
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing PM

Intersection #10: Moffett Blvd & Leong Dr



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 << 5:30-5:45												
Base Vol:	3	191	177	194	847	2	0	0	3	154	0	66
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	3	191	177	194	847	2	0	0	3	154	0	66
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	3	191	177	194	847	2	0	0	3	154	0	66
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	3	191	177	194	847	2	0	0	3	154	0	66
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	3	191	177	194	847	2	0	0	3	154	0	66
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	3	191	177	194	847	2	0	0	3	154	0	66
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	0.97	0.95	0.95	0.95	0.92	0.95	0.95	0.92
Lanes:	1.00	2.00	1.00	1.00	1.99	0.01	0.00	1.00	1.00	1.00	0.00	1.00
Final Sat.:	1750	3800	1750	1750	3691	9	0	1800	1750	1800	0	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.05	0.10	0.11	0.23	0.23	0.00	0.00	0.00	0.09	0.00	0.04
Crit Moves:	****				****				****	****		
Green Time:	7.0	16.5	16.5	11.5	21.0	21.0	0.0	0.0	10.0	10.0	0.0	10.0
Volume/Cap:	0.01	0.18	0.37	0.58	0.66	0.66	0.00	0.00	0.01	0.51	0.00	0.23
Delay/Veh:	23.5	16.7	18.0	24.5	17.7	17.7	0.0	0.0	20.9	24.3	0.0	22.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	23.5	16.7	18.0	24.5	17.7	17.7	0.0	0.0	20.9	24.3	0.0	22.0
LOS by Move:	C	B	B-	C	B	B	A	A	C+	C	A	C+
HCM2kAvgQ:	0	1	3	4	7	7	0	0	0	3	0	1

Note: Queue reported is the number of cars per lane.

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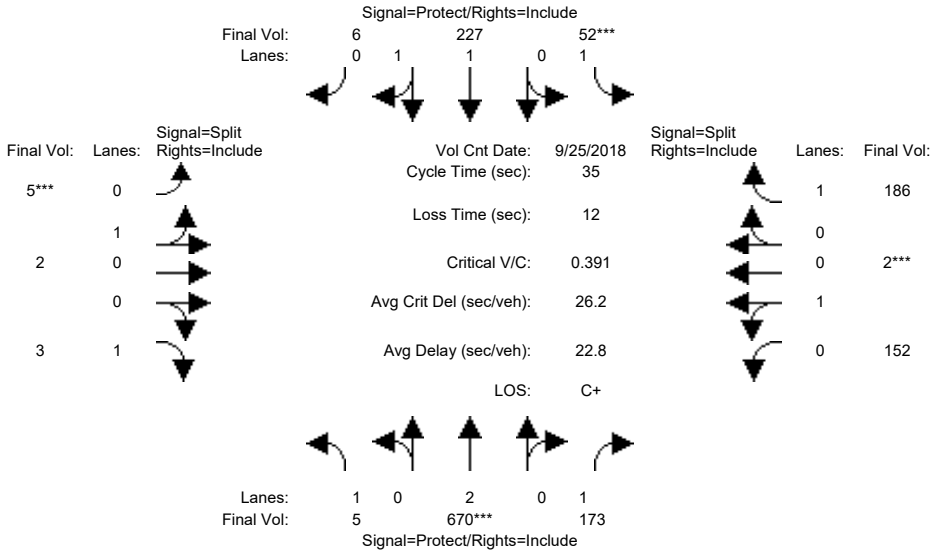
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex+Proj AM

Intersection #10: Moffett Blvd & Leong Dr



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 <<												
Base Vol:	5	669	173	52	220	6	5	2	3	152	2	186
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	5	669	173	52	220	6	5	2	3	152	2	186
Added Vol:	0	1	0	0	7	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	5	670	173	52	227	6	5	2	3	152	2	186
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	5	670	173	52	227	6	5	2	3	152	2	186
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	5	670	173	52	227	6	5	2	3	152	2	186
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	5	670	173	52	227	6	5	2	3	152	2	186
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	0.97	0.95	0.95	0.95	0.92	0.95	0.95	0.92
Lanes:	1.00	2.00	1.00	1.00	1.95	0.05	0.71	0.29	1.00	0.99	0.01	1.00
Final Sat.:	1750	3800	1750	1750	3605	95	1286	514	1750	1777	23	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.18	0.10	0.03	0.06	0.06	0.00	0.00	0.00	0.09	0.09	0.11
Crit Moves:		****		****			****				****	
Green Time:	5.0	7.1	7.1	5.0	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
Volume/Cap:	0.02	0.86	0.48	0.21	0.31	0.31	0.02	0.02	0.01	0.42	0.42	0.52
Delay/Veh:	18.1	28.8	18.3	19.0	16.8	16.8	15.6	15.6	15.6	17.7	17.7	18.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	18.1	28.8	18.3	19.0	16.8	16.8	15.6	15.6	15.6	17.7	17.7	18.7
LOS by Move:	B-	C	B-	B-	B	B	B	B	B	B	B	B-
HCM2kAvgQ:	0	6	2	1	2	2	0	0	0	3	3	3

Note: Queue reported is the number of cars per lane.

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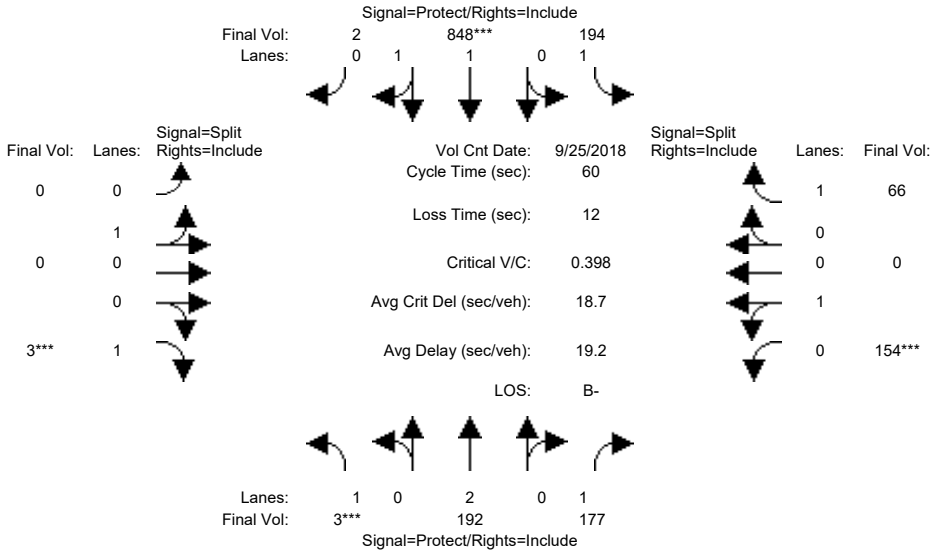
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex+Proj PM

Intersection #10: Moffett Blvd & Leong Dr



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 << 5:30-5:45												
Base Vol:	3	191	177	194	847	2	0	0	3	154	0	66
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	3	191	177	194	847	2	0	0	3	154	0	66
Added Vol:	0	1	0	0	1	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	3	192	177	194	848	2	0	0	3	154	0	66
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	3	192	177	194	848	2	0	0	3	154	0	66
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	3	192	177	194	848	2	0	0	3	154	0	66
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	3	192	177	194	848	2	0	0	3	154	0	66
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	0.97	0.95	0.95	0.95	0.92	0.95	0.95	0.92
Lanes:	1.00	2.00	1.00	1.00	1.99	0.01	0.00	1.00	1.00	1.00	0.00	1.00
Final Sat.:	1750	3800	1750	1750	3691	9	0	1800	1750	1800	0	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.05	0.10	0.11	0.23	0.23	0.00	0.00	0.00	0.09	0.00	0.04
Crit Moves:	****				****				****	****		
Green Time:	7.0	16.5	16.5	11.5	21.0	21.0	0.0	0.0	10.0	10.0	0.0	10.0
Volume/Cap:	0.01	0.18	0.37	0.58	0.66	0.66	0.00	0.00	0.01	0.51	0.00	0.23
Delay/Veh:	23.5	16.7	18.0	24.5	17.7	17.7	0.0	0.0	20.9	24.3	0.0	22.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	23.5	16.7	18.0	24.5	17.7	17.7	0.0	0.0	20.9	24.3	0.0	22.0
LOS by Move:	C	B	B-	C	B	B	A	A	C+	C	A	C+
HCM2kAvgQ:	0	1	3	4	7	7	0	0	0	3	0	1

Note: Queue reported is the number of cars per lane.

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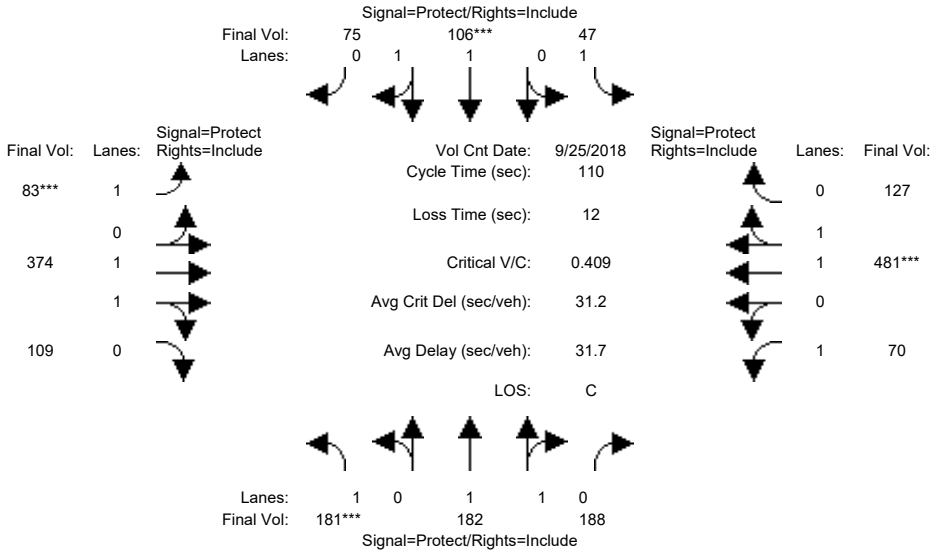
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing AM

Intersection #11: Whisman Rd & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 <<												
Base Vol:	181	182	188	47	106	75	83	374	109	70	481	127
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	181	182	188	47	106	75	83	374	109	70	481	127
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	181	182	188	47	106	75	83	374	109	70	481	127
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	181	182	188	47	106	75	83	374	109	70	481	127
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	181	182	188	47	106	75	83	374	109	70	481	127
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	181	182	188	47	106	75	83	374	109	70	481	127
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	0.99	0.95	0.92	0.98	0.95	0.92	0.98	0.95
Lanes:	1.00	1.00	1.00	1.00	1.15	0.85	1.00	1.54	0.46	1.00	1.57	0.43
Final Sat.:	1750	1900	1750	1750	2166	1532	1750	2864	835	1750	2927	773
Capacity Analysis Module:												
Vol/Sat:	0.10	0.10	0.11	0.03	0.05	0.05	0.05	0.13	0.13	0.04	0.16	0.16
Crit Moves:	****				****		****				****	
Green Time:	27.8	25.8	25.8	15.3	13.2	13.2	12.8	38.3	38.3	18.7	44.2	44.2
Volume/Cap:	0.41	0.41	0.46	0.19	0.41	0.41	0.41	0.37	0.37	0.24	0.41	0.41
Delay/Veh:	34.8	36.0	36.6	42.3	45.4	45.4	46.5	27.0	27.0	39.9	23.7	23.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	34.8	36.0	36.6	42.3	45.4	45.4	46.5	27.0	27.0	39.9	23.7	23.7
LOS by Move:	C-	D+	D+	D	D	D	D	C	C	D	C	C
HCM2kAvgQ:	6	5	6	2	3	3	3	6	6	2	8	8

Note: Queue reported is the number of cars per lane.

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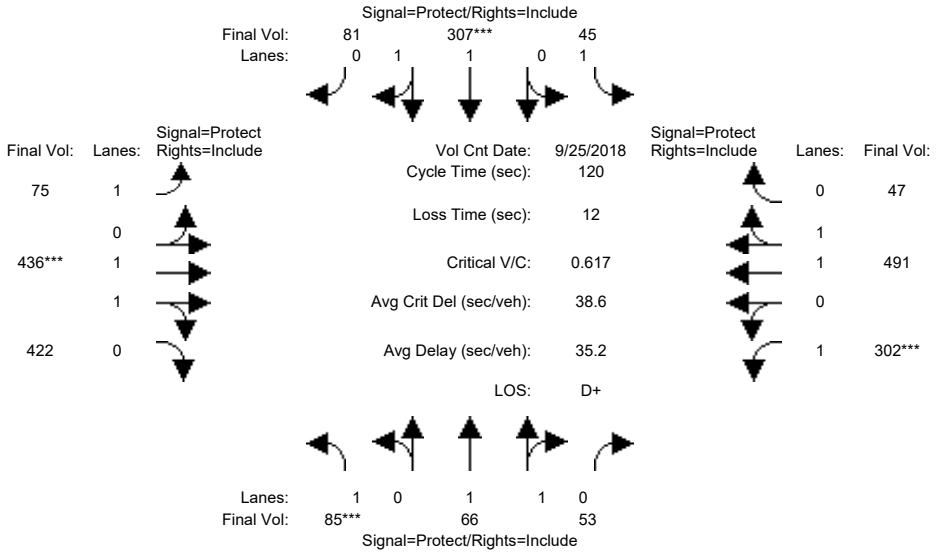
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing PM

Intersection #11: Whisman Rd & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 << 5:30-5:45												
Base Vol:	85	66	53	45	307	81	75	436	422	302	491	47
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	85	66	53	45	307	81	75	436	422	302	491	47
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	85	66	53	45	307	81	75	436	422	302	491	47
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	85	66	53	45	307	81	75	436	422	302	491	47
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	85	66	53	45	307	81	75	436	422	302	491	47
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	85	66	53	45	307	81	75	436	422	302	491	47
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.92	0.98	0.95	0.92	1.00	0.95	0.92	0.98	0.95
Lanes:	1.00	1.09	0.91	1.00	1.57	0.43	1.00	1.00	1.00	1.00	1.82	0.18
Final Sat.:	1750	2051	1647	1750	2927	772	1750	1898	1800	1750	3377	323
Capacity Analysis Module:												
Vol/Sat:	0.05	0.03	0.03	0.03	0.10	0.10	0.04	0.23	0.23	0.17	0.15	0.15
Crit Moves:	****				****			****		****		
Green Time:	9.4	17.5	17.5	12.3	20.4	20.4	22.4	44.6	44.6	33.5	55.8	55.8
Volume/Cap:	0.62	0.22	0.22	0.25	0.62	0.62	0.23	0.62	0.63	0.62	0.31	0.31
Delay/Veh:	61.7	45.4	45.4	50.4	48.1	48.1	41.8	31.6	31.9	40.0	20.2	20.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	61.7	45.4	45.4	50.4	48.1	48.1	41.8	31.6	31.9	40.0	20.2	20.2
LOS by Move:	E	D	D	D	D	D	D	C	C	D	C+	C+
HCM2kAvgQ:	4	2	2	2	8	8	2	13	13	11	6	6

Note: Queue reported is the number of cars per lane.

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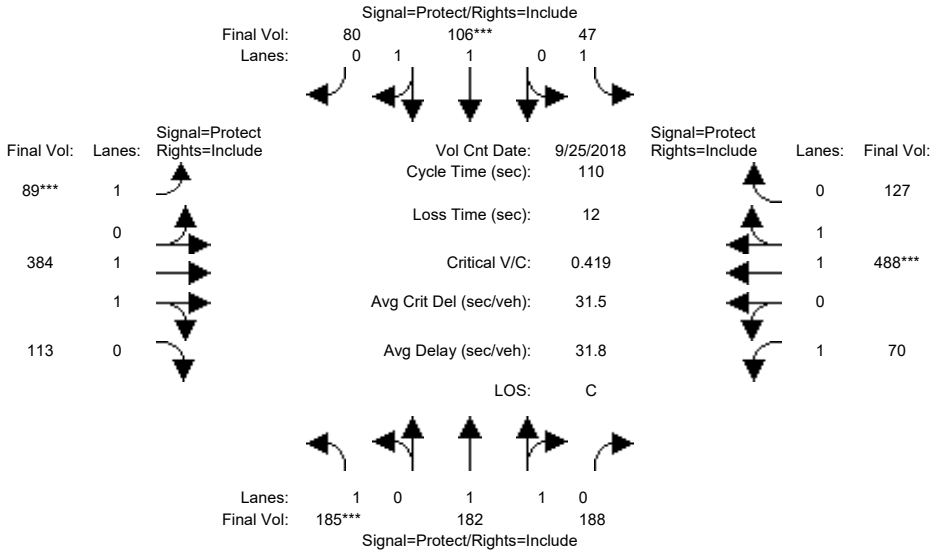
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex+Proj AM

Intersection #11: Whisman Rd & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 <<												
Base Vol:	181	182	188	47	106	75	83	374	109	70	481	127
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	181	182	188	47	106	75	83	374	109	70	481	127
Added Vol:	4	0	0	0	0	5	6	10	4	0	7	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	185	182	188	47	106	80	89	384	113	70	488	127
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	185	182	188	47	106	80	89	384	113	70	488	127
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	185	182	188	47	106	80	89	384	113	70	488	127
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	185	182	188	47	106	80	89	384	113	70	488	127
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	0.99	0.95	0.92	0.98	0.95	0.92	0.98	0.95
Lanes:	1.00	1.00	1.00	1.00	1.12	0.88	1.00	1.53	0.47	1.00	1.58	0.42
Final Sat.:	1750	1900	1750	1750	2107	1591	1750	2858	841	1750	2935	764
Capacity Analysis Module:												
Vol/Sat:	0.11	0.10	0.11	0.03	0.05	0.05	0.05	0.13	0.13	0.04	0.17	0.17
Crit Moves:	****				****		****				****	
Green Time:	27.8	25.7	25.7	15.2	13.2	13.2	13.4	38.7	38.7	18.3	43.7	43.7
Volume/Cap:	0.42	0.41	0.46	0.19	0.42	0.42	0.42	0.38	0.38	0.24	0.42	0.42
Delay/Veh:	35.0	36.0	36.6	42.3	45.5	45.5	46.1	26.9	26.9	40.2	24.2	24.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	35.0	36.0	36.6	42.3	45.5	45.5	46.1	26.9	26.9	40.2	24.2	24.2
LOS by Move:	D+	D+	D+	D	D	D	D	C	C	D	C	C
HCM2kAvgQ:	6	5	6	2	3	3	3	6	6	2	8	8

Note: Queue reported is the number of cars per lane.

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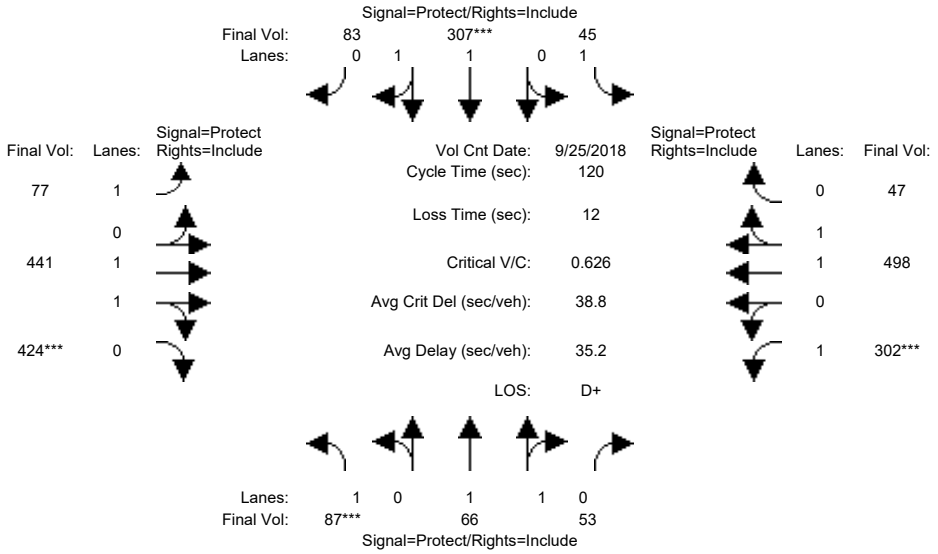
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex+Proj PM

Intersection #11: Whisman Rd & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 << 5:30-5:45												
Base Vol:	85	66	53	45	307	81	75	436	422	302	491	47
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	85	66	53	45	307	81	75	436	422	302	491	47
Added Vol:	2	0	0	0	0	2	2	5	2	0	7	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	87	66	53	45	307	83	77	441	424	302	498	47
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	87	66	53	45	307	83	77	441	424	302	498	47
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	87	66	53	45	307	83	77	441	424	302	498	47
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	87	66	53	45	307	83	77	441	424	302	498	47
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.92	0.98	0.95	0.92	1.00	0.95	0.92	0.98	0.95
Lanes:	1.00	1.09	0.91	1.00	1.56	0.44	1.00	1.00	1.00	1.00	1.82	0.18
Final Sat.:	1750	2051	1647	1750	2912	787	1750	1898	1800	1750	3381	319
Capacity Analysis Module:												
Vol/Sat:	0.05	0.03	0.03	0.03	0.11	0.11	0.04	0.23	0.24	0.17	0.15	0.15
Crit Moves:	****				****				****	****		
Green Time:	9.5	17.5	17.5	12.2	20.2	20.2	22.2	45.2	45.2	33.1	56.1	56.1
Volume/Cap:	0.63	0.22	0.22	0.25	0.63	0.63	0.24	0.62	0.63	0.63	0.32	0.32
Delay/Veh:	62.2	45.4	45.4	50.4	48.4	48.4	42.1	31.2	31.4	40.6	20.1	20.1
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	62.2	45.4	45.4	50.4	48.4	48.4	42.1	31.2	31.4	40.6	20.1	20.1
LOS by Move:	E	D	D	D	D	D	D	C	C	D	C+	C+
HCM2kAvgQ:	4	2	2	2	8	8	3	13	13	11	6	6

Note: Queue reported is the number of cars per lane.

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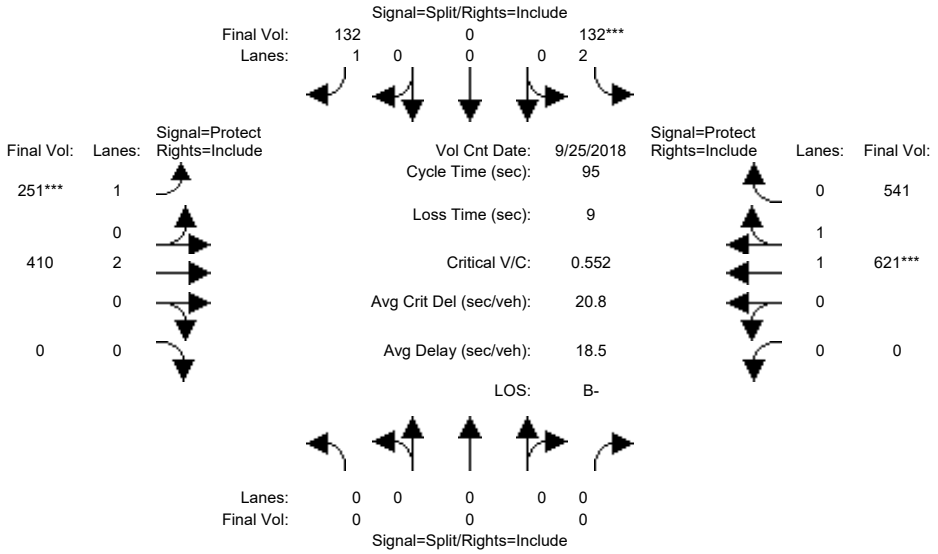
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing AM

Intersection #12: Ellis St & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	0	0	0	10	0	10	7	10	0	0	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 << 9:00-9:15												
Base Vol:	0	0	0	132	0	132	251	410	0	0	621	541
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	132	0	132	251	410	0	0	621	541
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	132	0	132	251	410	0	0	621	541
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	132	0	132	251	410	0	0	621	541
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	132	0	132	251	410	0	0	621	541
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	0	132	0	132	251	410	0	0	621	541
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.95
Lanes:	0.00	0.00	0.00	2.00	0.00	1.00	1.00	2.00	0.00	0.00	1.04	0.96
Final Sat.:	0	0	0	3150	0	1750	1750	3800	0	0	1976	1722
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.04	0.00	0.08	0.14	0.11	0.00	0.00	0.31	0.31
Crit Moves:				****			****				****	
Green Time:	0.0	0.0	0.0	13.0	0.0	13.0	22.9	73.0	0.0	0.0	50.1	50.1
Volume/Cap:	0.00	0.00	0.00	0.31	0.00	0.55	0.60	0.14	0.00	0.00	0.60	0.60
Delay/Veh:	0.0	0.0	0.0	37.4	0.0	41.1	34.3	2.9	0.0	0.0	16.0	16.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	0.0	0.0	37.4	0.0	41.1	34.3	2.9	0.0	0.0	16.0	16.0
LOS by Move:	A	A	A	D+	A	D	C-	A	A	A	B	B
HCM2kAvgQ:	0	0	0	2	0	5	8	2	0	0	12	12

Note: Queue reported is the number of cars per lane.

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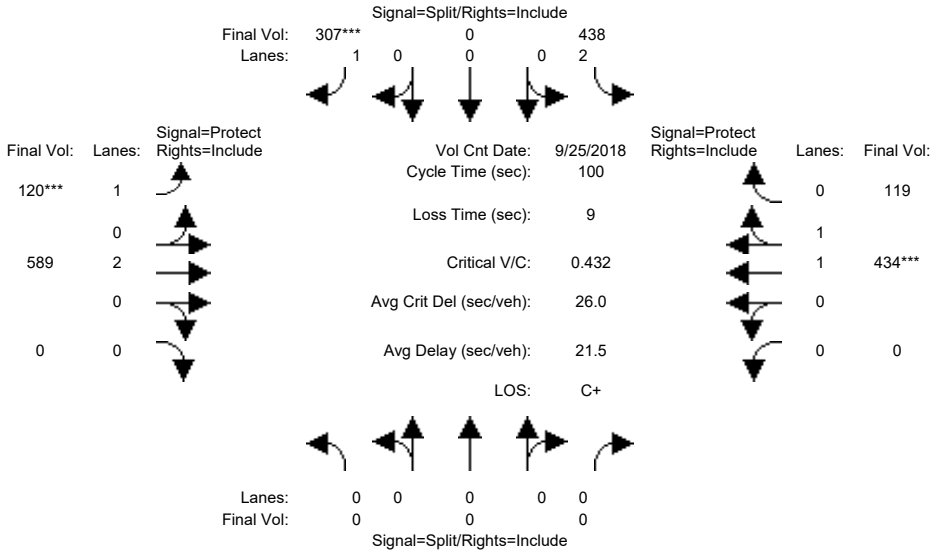
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing PM

Intersection #12: Ellis St & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	0	0	10	0	10	7	10	0	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 << 5:30-5:45												
Base Vol:	0	0	0	438	0	307	120	589	0	0	434	119
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	438	0	307	120	589	0	0	434	119
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	438	0	307	120	589	0	0	434	119
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	438	0	307	120	589	0	0	434	119
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	438	0	307	120	589	0	0	434	119
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	0	438	0	307	120	589	0	0	434	119
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.92	0.98	0.95
Lanes:	0.00	0.00	0.00	2.00	0.00	1.00	1.00	2.00	0.00	0.00	1.56	0.44
Final Sat.:	0	0	0	3150	0	1750	1750	3800	0	0	2903	796
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.14	0.00	0.18	0.07	0.16	0.00	0.00	0.15	0.15
Crit Moves:						****	****				****	
Green Time:	0.0	0.0	0.0	40.6	0.0	40.6	15.9	50.4	0.0	0.0	34.6	34.6
Volume/Cap:	0.00	0.00	0.00	0.34	0.00	0.43	0.43	0.31	0.00	0.00	0.43	0.43
Delay/Veh:	0.0	0.0	0.0	20.7	0.0	21.8	39.1	14.6	0.0	0.0	25.4	25.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	0.0	0.0	20.7	0.0	21.8	39.1	14.6	0.0	0.0	25.4	25.4
LOS by Move:	A	A	A	C+	A	C+	D	B	A	A	C	C
HCM2kAvgQ:	0	0	0	6	0	7	4	5	0	0	7	7

Note: Queue reported is the number of cars per lane.

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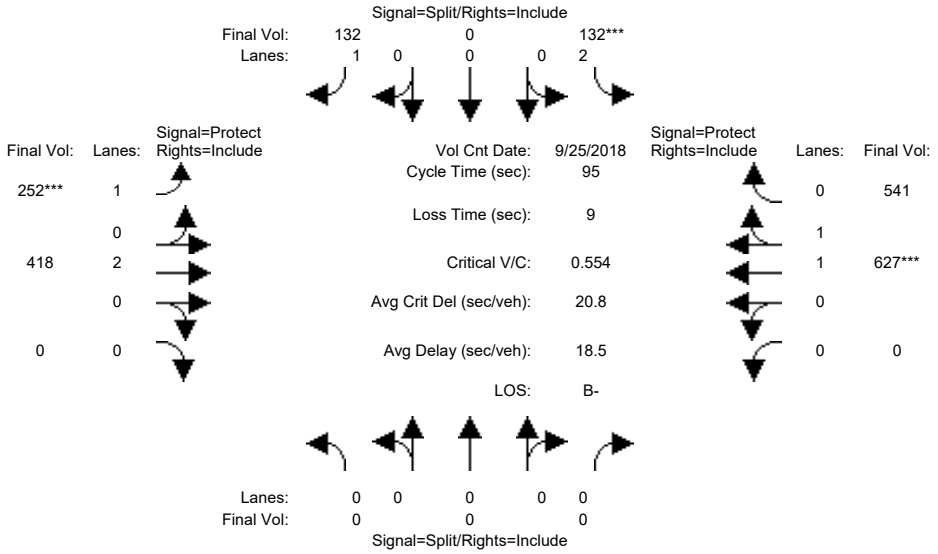
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex+Proj AM

Intersection #12: Ellis St & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	0	0	0	10	0	10	7	10	0	0	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 << 9:00-9:15												
Base Vol:	0	0	0	132	0	132	251	410	0	0	621	541
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	132	0	132	251	410	0	0	621	541
Added Vol:	0	0	0	0	0	0	1	8	0	0	6	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	132	0	132	252	418	0	0	627	541
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	132	0	132	252	418	0	0	627	541
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	132	0	132	252	418	0	0	627	541
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	0	132	0	132	252	418	0	0	627	541
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.95
Lanes:	0.00	0.00	0.00	2.00	0.00	1.00	1.00	2.00	0.00	0.00	1.05	0.95
Final Sat.:	0	0	0	3150	0	1750	1750	3800	0	0	1985	1713
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.04	0.00	0.08	0.14	0.11	0.00	0.00	0.32	0.32
Crit Moves:				****			****				****	
Green Time:	0.0	0.0	0.0	12.9	0.0	12.9	22.9	73.1	0.0	0.0	50.2	50.2
Volume/Cap:	0.00	0.00	0.00	0.31	0.00	0.55	0.60	0.14	0.00	0.00	0.60	0.60
Delay/Veh:	0.0	0.0	0.0	37.4	0.0	41.2	34.3	2.9	0.0	0.0	16.0	16.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	0.0	0.0	37.4	0.0	41.2	34.3	2.9	0.0	0.0	16.0	16.0
LOS by Move:	A	A	A	D+	A	D	C-	A	A	A	B	B
HCM2kAvgQ:	0	0	0	2	0	5	8	2	0	0	12	12

Note: Queue reported is the number of cars per lane.

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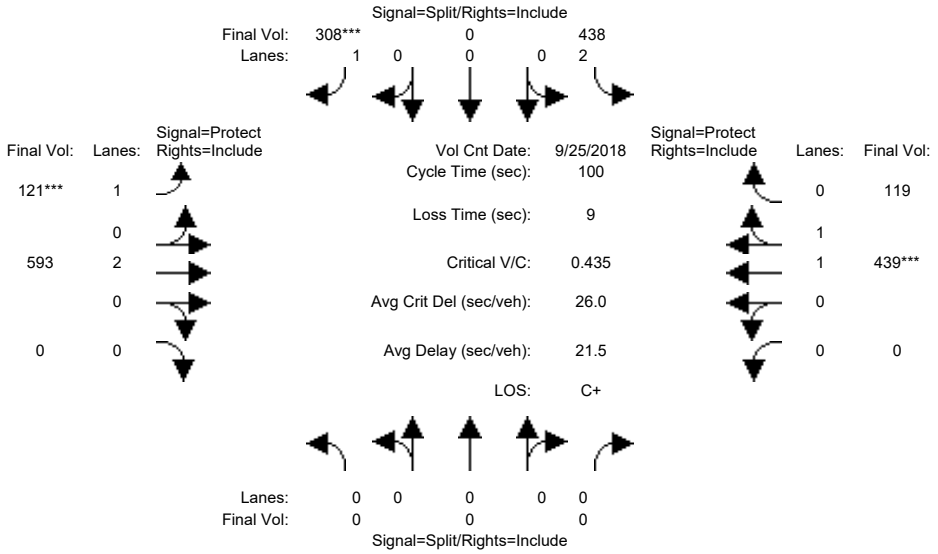
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex+Proj PM

Intersection #12: Ellis St & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	0	0	10	0	10	7	10	0	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 25 Sep 2018 << 5:30-5:45												
Base Vol:	0	0	0	438	0	307	120	589	0	0	434	119
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	438	0	307	120	589	0	0	434	119
Added Vol:	0	0	0	0	0	1	1	4	0	0	5	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	438	0	308	121	593	0	0	439	119
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	438	0	308	121	593	0	0	439	119
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	438	0	308	121	593	0	0	439	119
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	0	438	0	308	121	593	0	0	439	119
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.92	0.98	0.95
Lanes:	0.00	0.00	0.00	2.00	0.00	1.00	1.00	2.00	0.00	0.00	1.56	0.44
Final Sat.:	0	0	0	3150	0	1750	1750	3800	0	0	2910	789
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.14	0.00	0.18	0.07	0.16	0.00	0.00	0.15	0.15
Crit Moves:						****	****				****	
Green Time:	0.0	0.0	0.0	40.4	0.0	40.4	15.9	50.6	0.0	0.0	34.7	34.7
Volume/Cap:	0.00	0.00	0.00	0.34	0.00	0.44	0.44	0.31	0.00	0.00	0.44	0.44
Delay/Veh:	0.0	0.0	0.0	20.8	0.0	22.0	39.1	14.6	0.0	0.0	25.4	25.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	0.0	0.0	20.8	0.0	22.0	39.1	14.6	0.0	0.0	25.4	25.4
LOS by Move:	A	A	A	C+	A	C+	D	B	A	A	C	C
HCM2kAvgQ:	0	0	0	6	0	7	4	5	0	0	7	7

Note: Queue reported is the number of cars per lane.

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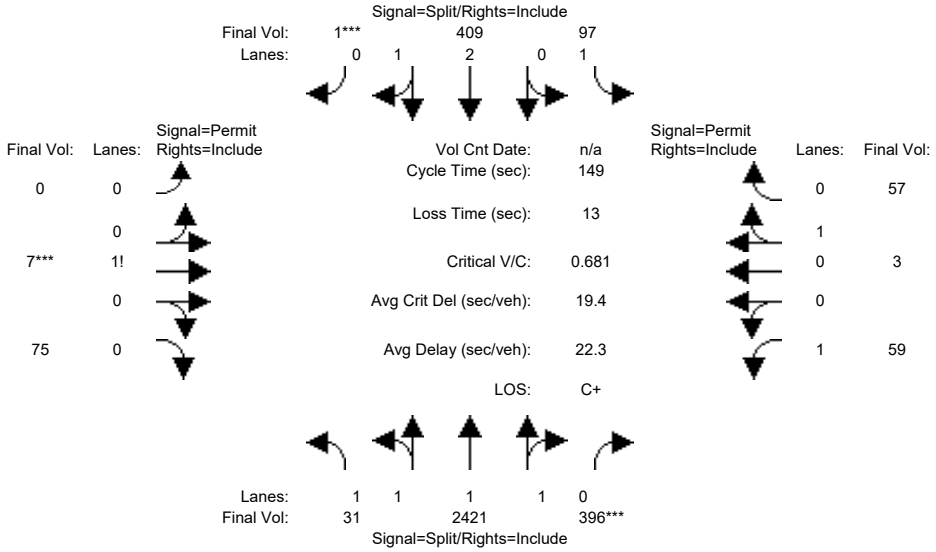
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background AM

Intersection #1: Shoreline Blvd. & Pear Ave



Street Name:	Shoreline Blvd						Pear Ave					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	31	2421	396	97	409	1	0	7	75	59	3	57
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	31	2421	396	97	409	1	0	7	75	59	3	57
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	31	2421	396	97	409	1	0	7	75	59	3	57
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	31	2421	396	97	409	1	0	7	75	59	3	57
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	31	2421	396	97	409	1	0	7	75	59	3	57
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	31	2421	396	97	409	1	0	7	75	59	3	57
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.92	0.98	0.95	0.92	0.95	0.95	0.92	0.95	0.95
Lanes:	1.00	2.56	0.44	1.00	2.99	0.01	0.00	0.09	0.91	1.00	0.05	0.95
Final Sat.:	1750	4812	787	1750	5586	14	0	154	1646	1750	90	1710
Capacity Analysis Module:												
Vol/Sat:	0.02	0.50	0.50	0.06	0.07	0.07	0.00	0.05	0.05	0.03	0.03	0.03
Crit Moves:			****			****			****			
Green Time:	110.0	110	110.0	16.0	16.0	16.0	0.0	10.0	10.0	10.0	10.0	10.0
Volume/Cap:	0.02	0.68	0.68	0.52	0.68	0.68	0.00	0.68	0.68	0.50	0.50	0.50
Delay/Veh:	5.2	10.7	10.7	65.3	67.2	67.2	0.0	82.4	82.4	70.5	70.3	70.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	5.2	10.7	10.7	65.3	67.2	67.2	0.0	82.4	82.4	70.5	70.3	70.3
LOS by Move:	A	B+	B+	E	E	E	A	F	F	E	E	E
HCM2kAvgQ:	0	21	21	5	7	7	0	5	5	3	3	3

Note: Queue reported is the number of cars per lane.

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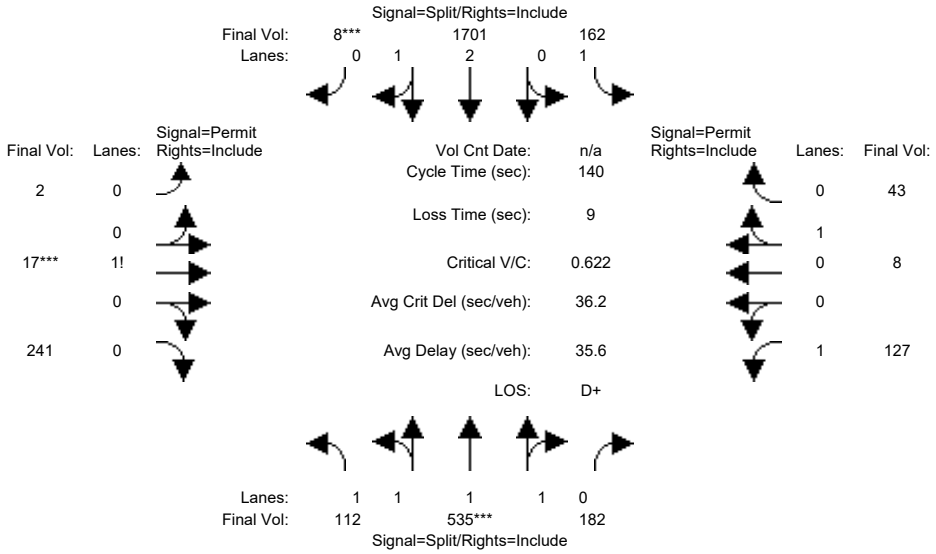
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background PM

Intersection #1: Shoreline Blvd. & Pear Ave



Street Name:	Shoreline Blvd						Pear Ave					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	112	535	182	162	1701	8	2	17	241	127	8	43
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	112	535	182	162	1701	8	2	17	241	127	8	43
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	112	535	182	162	1701	8	2	17	241	127	8	43
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	112	535	182	162	1701	8	2	17	241	127	8	43
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	112	535	182	162	1701	8	2	17	241	127	8	43
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	112	535	182	162	1701	8	2	17	241	127	8	43
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.92	0.98	0.95	0.92	0.92	0.92	0.92	0.95	0.95
Lanes:	1.00	2.21	0.79	1.00	2.99	0.01	0.01	0.06	0.93	1.00	0.16	0.84
Final Sat.:	1750	4177	1421	1750	5574	26	13	114	1622	1750	282	1518
Capacity Analysis Module:												
Vol/Sat:	0.06	0.13	0.13	0.09	0.31	0.31	0.15	0.15	0.15	0.07	0.03	0.03
Crit Moves:		****				****		****				
Green Time:	28.8	28.8	28.8	68.7	68.7	68.7	33.5	33.5	33.5	33.5	33.5	33.5
Volume/Cap:	0.31	0.62	0.62	0.19	0.62	0.62	0.62	0.62	0.62	0.30	0.12	0.12
Delay/Veh:	47.2	51.5	51.5	20.1	26.6	26.6	50.5	50.5	50.5	44.1	41.9	41.9
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	47.2	51.5	51.5	20.1	26.6	26.6	50.5	50.5	50.5	44.1	41.9	41.9
LOS by Move:	D	D-	D-	C+	C	C	D	D	D	D	D	D
HCM2kAvgQ:	4	9	9	4	18	18	11	11	11	5	2	2

Note: Queue reported is the number of cars per lane.

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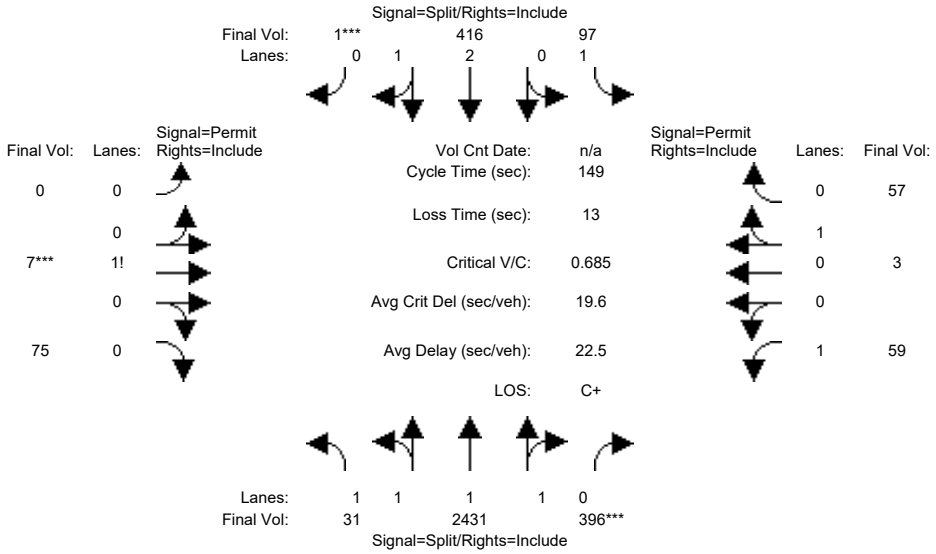
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Bkgrd+Proj AM

Intersection #1: Shoreline Blvd. & Pear Ave



Street Name:	Shoreline Blvd						Pear Ave					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	31	2421	396	97	409	1	0	7	75	59	3	57
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	31	2421	396	97	409	1	0	7	75	59	3	57
Added Vol:	0	10	0	0	7	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	31	2431	396	97	416	1	0	7	75	59	3	57
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	31	2431	396	97	416	1	0	7	75	59	3	57
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	31	2431	396	97	416	1	0	7	75	59	3	57
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	31	2431	396	97	416	1	0	7	75	59	3	57
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.92	0.98	0.95	0.92	0.95	0.95	0.92	0.95	0.95
Lanes:	1.00	2.56	0.44	1.00	2.99	0.01	0.00	0.09	0.91	1.00	0.05	0.95
Final Sat.:	1750	4815	784	1750	5587	13	0	154	1646	1750	90	1710
Capacity Analysis Module:												
Vol/Sat:	0.02	0.50	0.50	0.06	0.07	0.07	0.00	0.05	0.05	0.03	0.03	0.03
Crit Moves:			****			****		****				
Green Time:	109.8	110	109.8	16.2	16.2	16.2	0.0	10.0	10.0	10.0	10.0	10.0
Volume/Cap:	0.02	0.69	0.69	0.51	0.69	0.69	0.00	0.68	0.68	0.50	0.50	0.50
Delay/Veh:	5.2	10.9	10.9	65.0	67.2	67.2	0.0	82.4	82.4	70.5	70.3	70.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	5.2	10.9	10.9	65.0	67.2	67.2	0.0	82.4	82.4	70.5	70.3	70.3
LOS by Move:	A	B+	B+	E	E	E	A	F	F	E	E	E
HCM2kAvgQ:	0	21	21	5	7	7	0	5	5	3	3	3

Note: Queue reported is the number of cars per lane.

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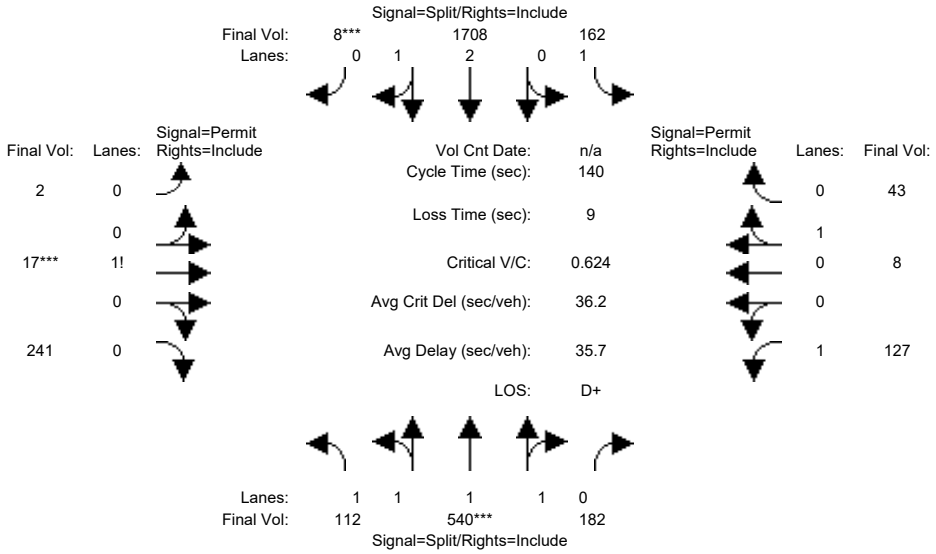
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Bkgrd+Proj PM

Intersection #1: Shoreline Blvd. & Pear Ave



Street Name:	Shoreline Blvd						Pear Ave					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	112	535	182	162	1701	8	2	17	241	127	8	43
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	112	535	182	162	1701	8	2	17	241	127	8	43
Added Vol:	0	5	0	0	7	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	112	540	182	162	1708	8	2	17	241	127	8	43
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	112	540	182	162	1708	8	2	17	241	127	8	43
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	112	540	182	162	1708	8	2	17	241	127	8	43
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	112	540	182	162	1708	8	2	17	241	127	8	43
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.92	0.98	0.95	0.92	0.92	0.92	0.92	0.95	0.95
Lanes:	1.00	2.22	0.78	1.00	2.99	0.01	0.01	0.06	0.93	1.00	0.16	0.84
Final Sat.:	1750	4187	1411	1750	5574	26	13	114	1622	1750	282	1518
Capacity Analysis Module:												
Vol/Sat:	0.06	0.13	0.13	0.09	0.31	0.31	0.15	0.15	0.15	0.07	0.03	0.03
Crit Moves:		****				****		****				
Green Time:	28.9	28.9	28.9	68.7	68.7	68.7	33.3	33.3	33.3	33.3	33.3	33.3
Volume/Cap:	0.31	0.62	0.62	0.19	0.62	0.62	0.62	0.62	0.62	0.30	0.12	0.12
Delay/Veh:	47.1	51.5	51.5	20.1	26.6	26.6	50.7	50.7	50.7	44.2	41.9	41.9
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	47.1	51.5	51.5	20.1	26.6	26.6	50.7	50.7	50.7	44.2	41.9	41.9
LOS by Move:	D	D-	D-	C+	C	C	D	D	D	D	D	D
HCM2kAvgQ:	4	9	9	4	18	18	11	11	11	5	2	2

Note: Queue reported is the number of cars per lane.

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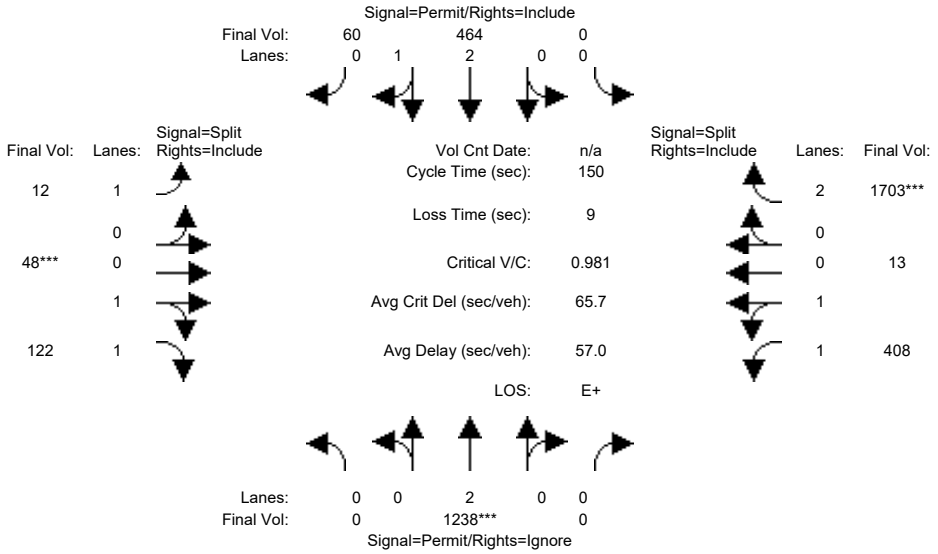
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background AM

Intersection #2: Shoreline Blvd. & US101 NB Off-ramp/La Avenida



Street Name:	Shoreline Boulevard						US101 NB Off-ramp/La Avenida Aven					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	0	10	0	0	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	1238	2	0	464	60	12	48	122	408	13	1703
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	1238	2	0	464	60	12	48	122	408	13	1703
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	1238	2	0	464	60	12	48	122	408	13	1703
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	1238	0	0	464	60	12	48	122	408	13	1703
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1238	0	0	464	60	12	48	122	408	13	1703
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	1238	0	0	464	60	12	48	122	408	13	1703
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.97	0.92	0.92	0.99	0.95	0.92	0.95	0.95	0.93	0.95	0.83
Lanes:	0.00	2.00	0.00	0.00	2.64	0.36	1.00	0.56	1.44	1.94	0.06	2.00
Final Sat.:	0	3700	0	0	4958	641	1750	1016	2584	3440	110	3150
Capacity Analysis Module:												
Vol/Sat:	0.00	0.33	0.00	0.00	0.09	0.09	0.01	0.05	0.05	0.12	0.12	0.54
Crit Moves:		****						****				****
Green Time:	0.0	50.1	0.0	0.0	50.1	50.1	10.0	10.0	10.0	80.9	80.9	80.9
Volume/Cap:	0.00	1.00	0.00	0.00	0.28	0.28	0.10	0.71	0.71	0.22	0.22	1.00
Delay/Veh:	0.0	76.1	0.0	0.0	36.8	36.8	66.2	77.9	77.9	18.1	18.1	56.9
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	76.1	0.0	0.0	36.8	36.8	66.2	77.9	77.9	18.1	18.1	56.9
LOS by Move:	A	E-	A	A	D+	D+	E	E-	E-	B-	B-	E+
HCM2kAvgQ:	0	35	0	0	6	6	1	5	5	5	5	54

Note: Queue reported is the number of cars per lane.

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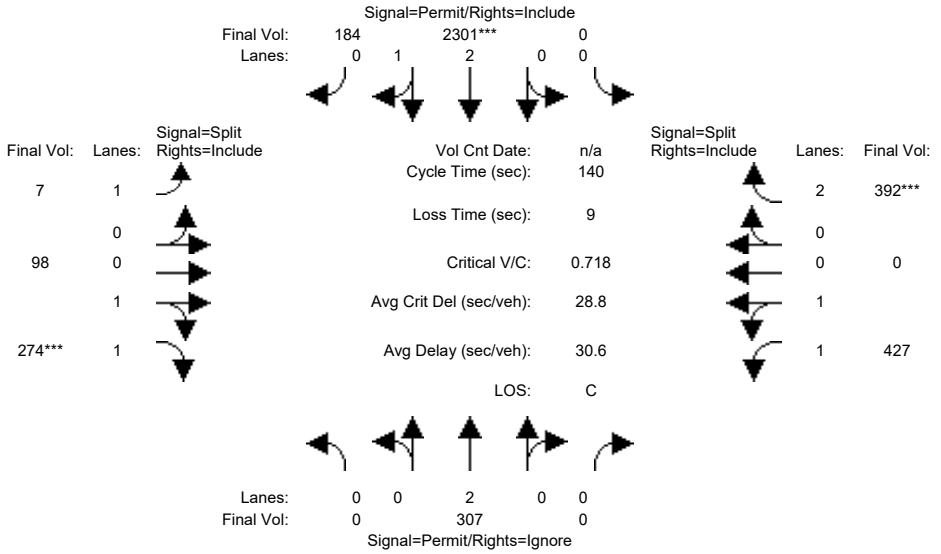
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background PM

Intersection #2: Shoreline Blvd. & US101 NB Off-ramp/La Avenida



Street Name:	Shoreline Boulevard						US101 NB Off-ramp/La Avenida Aven					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	0	10	0	0	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	307	11	0	2301	184	7	98	274	427	0	392
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	307	11	0	2301	184	7	98	274	427	0	392
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	307	11	0	2301	184	7	98	274	427	0	392
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	307	0	0	2301	184	7	98	274	427	0	392
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	307	0	0	2301	184	7	98	274	427	0	392
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	307	0	0	2301	184	7	98	274	427	0	392
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.97	0.92	0.92	0.99	0.95	0.92	0.95	0.95	0.93	1.00	0.83
Lanes:	0.00	2.00	0.00	0.00	2.77	0.23	1.00	0.53	1.47	2.00	0.00	2.00
Final Sat.:	0	3700	0	0	5185	415	1750	948	2652	3550	0	3150
Capacity Analysis Module:												
Vol/Sat:	0.00	0.08	0.00	0.00	0.44	0.44	0.00	0.10	0.10	0.12	0.00	0.12
Crit Moves:					****				****			****
Green Time:	0.0	86.6	0.0	0.0	86.6	86.6	20.2	20.2	20.2	24.3	0.0	24.3
Volume/Cap:	0.00	0.13	0.00	0.00	0.72	0.72	0.03	0.72	0.72	0.69	0.00	0.72
Delay/Veh:	0.0	11.1	0.0	0.0	19.1	19.1	51.5	62.0	62.0	57.8	0.0	59.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	11.1	0.0	0.0	19.1	19.1	51.5	62.0	62.0	57.8	0.0	59.2
LOS by Move:	A	B+	A	A	B-	B-	D-	E	E	E+	A	E+
HCM2kAvgQ:	0	3	0	0	24	24	0	9	9	10	0	11

Note: Queue reported is the number of cars per lane.

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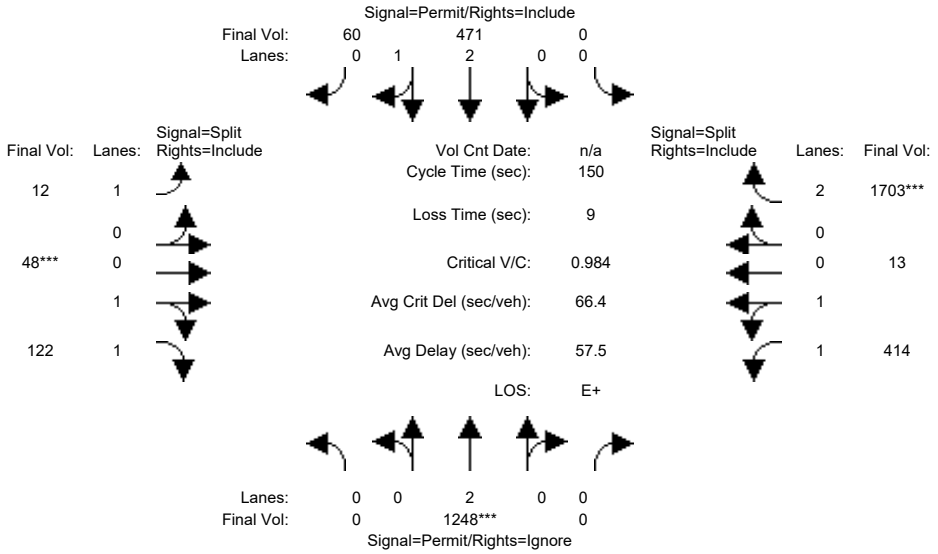
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Bkgrd+Proj AM

Intersection #2: Shoreline Blvd. & US101 NB Off-ramp/La Avenida



Street Name:	Shoreline Boulevard						US101 NB Off-ramp/La Avenida Aven					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	0	10	0	0	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	1238	2	0	464	60	12	48	122	408	13	1703
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	1238	2	0	464	60	12	48	122	408	13	1703
Added Vol:	0	10	0	0	7	0	0	0	0	6	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	1248	2	0	471	60	12	48	122	414	13	1703
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	1248	0	0	471	60	12	48	122	414	13	1703
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1248	0	0	471	60	12	48	122	414	13	1703
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	1248	0	0	471	60	12	48	122	414	13	1703
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.97	0.92	0.92	0.99	0.95	0.92	0.95	0.95	0.93	0.95	0.83
Lanes:	0.00	2.00	0.00	0.00	2.65	0.35	1.00	0.56	1.44	1.94	0.06	2.00
Final Sat.:	0	3700	0	0	4966	633	1750	1016	2584	3442	108	3150
Capacity Analysis Module:												
Vol/Sat:	0.00	0.34	0.00	0.00	0.09	0.09	0.01	0.05	0.05	0.12	0.12	0.54
Crit Moves:		****						****				****
Green Time:	0.0	50.3	0.0	0.0	50.3	50.3	10.0	10.0	10.0	80.7	80.7	80.7
Volume/Cap:	0.00	1.01	0.00	0.00	0.28	0.28	0.10	0.71	0.71	0.22	0.22	1.01
Delay/Veh:	0.0	76.7	0.0	0.0	36.7	36.7	66.2	77.9	77.9	18.3	18.3	57.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	76.7	0.0	0.0	36.7	36.7	66.2	77.9	77.9	18.3	18.3	57.8
LOS by Move:	A	E-	A	A	D+	D+	E	E-	E-	B-	B-	E+
HCM2kAvgQ:	0	36	0	0	6	6	1	5	5	5	5	54

Note: Queue reported is the number of cars per lane.

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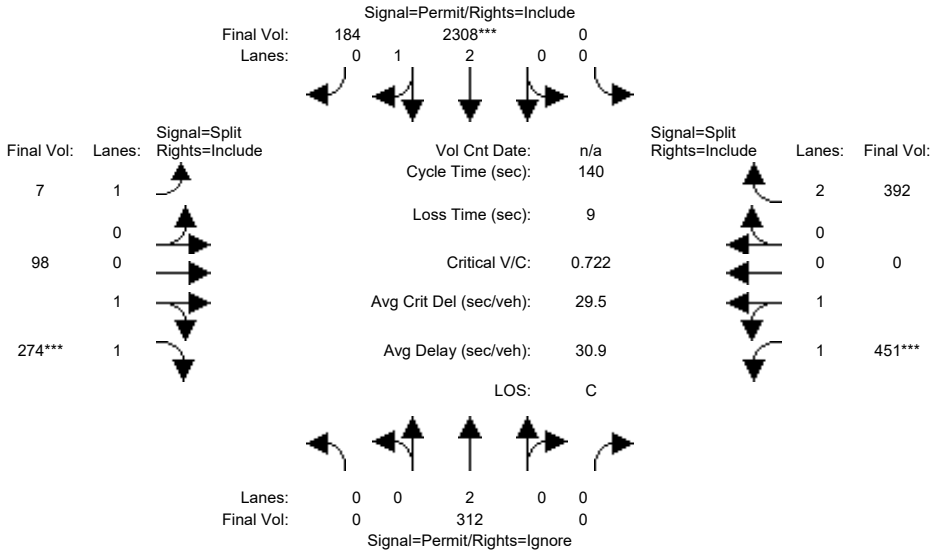
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Bkgrd+Proj PM

Intersection #2: Shoreline Blvd. & US101 NB Off-ramp/La Avenida



Street Name:	Shoreline Boulevard						US101 NB Off-ramp/La Avenida Aven					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	0	10	0	0	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	307	11	0	2301	184	7	98	274	427	0	392
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	307	11	0	2301	184	7	98	274	427	0	392
Added Vol:	0	5	0	0	7	0	0	0	0	24	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	312	11	0	2308	184	7	98	274	451	0	392
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	312	0	0	2308	184	7	98	274	451	0	392
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	312	0	0	2308	184	7	98	274	451	0	392
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	312	0	0	2308	184	7	98	274	451	0	392
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.97	0.92	0.92	0.99	0.95	0.92	0.95	0.95	0.93	1.00	0.83
Lanes:	0.00	2.00	0.00	0.00	2.77	0.23	1.00	0.53	1.47	2.00	0.00	2.00
Final Sat.:	0	3700	0	0	5186	413	1750	948	2652	3550	0	3150
Capacity Analysis Module:												
Vol/Sat:	0.00	0.08	0.00	0.00	0.45	0.45	0.00	0.10	0.10	0.13	0.00	0.12
Crit Moves:					****				****	****		
Green Time:	0.0	86.3	0.0	0.0	86.3	86.3	20.0	20.0	20.0	24.6	0.0	24.6
Volume/Cap:	0.00	0.14	0.00	0.00	0.72	0.72	0.03	0.72	0.72	0.72	0.00	0.71
Delay/Veh:	0.0	11.3	0.0	0.0	19.3	19.3	51.6	62.3	62.3	58.6	0.0	58.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	11.3	0.0	0.0	19.3	19.3	51.6	62.3	62.3	58.6	0.0	58.5
LOS by Move:	A	B+	A	A	B-	B-	D-	E	E	E+	A	E+
HCM2kAvgQ:	0	3	0	0	25	25	0	9	9	11	0	11

Note: Queue reported is the number of cars per lane.

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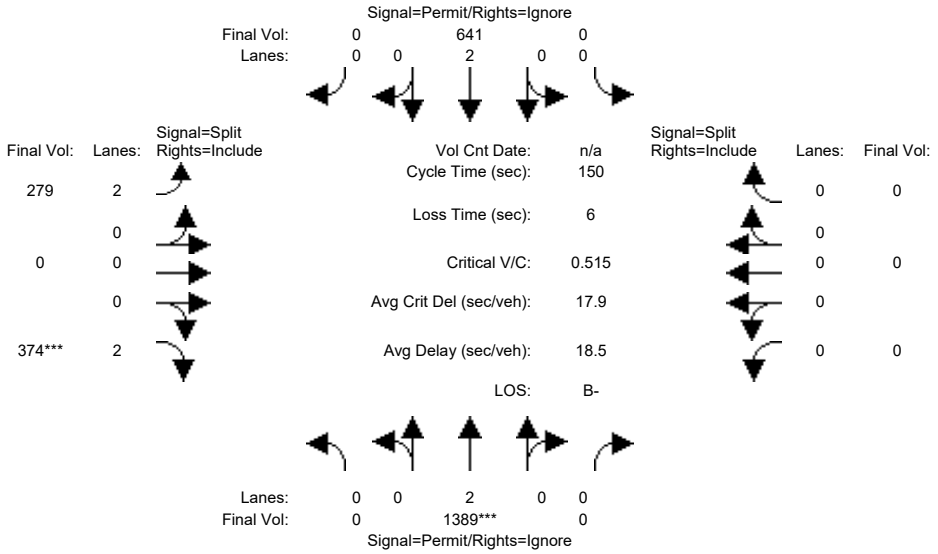
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background AM

Intersection #3: Shoreline Blvd. & US101/SR 85 SB Ramps



Street Name:	Shoreline Boulevard						US 101/SR85 SB Ramps					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	1389	265	0	641	366	279	0	374	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	1389	265	0	641	366	279	0	374	0	0	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	1389	265	0	641	366	279	0	374	0	0	0
User Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	1389	0	0	641	0	279	0	374	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1389	0	0	641	0	279	0	374	0	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	1389	0	0	641	0	279	0	374	0	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.97	0.92	0.92	0.97	0.92	0.83	1.00	0.83	0.92	1.00	0.92
Lanes:	0.00	2.00	0.00	0.00	2.00	0.00	2.00	0.00	2.00	0.00	0.00	0.00
Final Sat.:	0	3700	0	0	3700	0	3150	0	3150	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.00	0.38	0.00	0.00	0.17	0.00	0.09	0.00	0.12	0.00	0.00	0.00
Crit Moves:		****							****			
Green Time:	0.0	109	0.0	0.0	109	0.0	34.6	0.0	34.6	0.0	0.0	0.0
Volume/Cap:	0.00	0.51	0.00	0.00	0.24	0.00	0.38	0.00	0.51	0.00	0.00	0.00
Delay/Veh:	0.0	9.0	0.0	0.0	6.7	0.0	49.0	0.0	51.0	0.0	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	9.0	0.0	0.0	6.7	0.0	49.0	0.0	51.0	0.0	0.0	0.0
LOS by Move:	A	A	A	A	A	A	D	A	D-	A	A	A
HCM2kAvgQ:	0	14	0	0	5	0	7	0	9	0	0	0

Note: Queue reported is the number of cars per lane.

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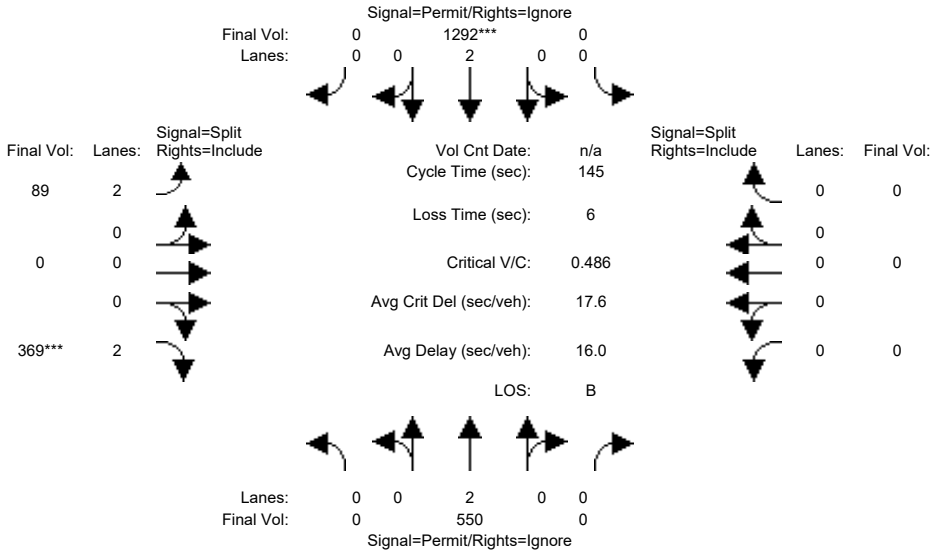
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background PM

Intersection #3: Shoreline Blvd. & US101/SR 85 SB Ramps



Street Name:	Shoreline Boulevard						US 101/SR85 SB Ramps					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	550	228	0	1292	1712	89	0	369	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	550	228	0	1292	1712	89	0	369	0	0	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	550	228	0	1292	1712	89	0	369	0	0	0
User Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	550	0	0	1292	0	89	0	369	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	550	0	0	1292	0	89	0	369	0	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	550	0	0	1292	0	89	0	369	0	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.97	0.92	0.92	0.97	0.92	0.83	1.00	0.83	0.92	1.00	0.92
Lanes:	0.00	2.00	0.00	0.00	2.00	0.00	2.00	0.00	2.00	0.00	0.00	0.00
Final Sat.:	0	3700	0	0	3700	0	3150	0	3150	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.00	0.15	0.00	0.00	0.35	0.00	0.03	0.00	0.12	0.00	0.00	0.00
Crit Moves:					****				****			
Green Time:	0.0	104	0.0	0.0	104	0.0	34.9	0.0	34.9	0.0	0.0	0.0
Volume/Cap:	0.00	0.21	0.00	0.00	0.49	0.00	0.12	0.00	0.49	0.00	0.00	0.00
Delay/Veh:	0.0	6.8	0.0	0.0	9.0	0.0	43.1	0.0	47.8	0.0	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	6.8	0.0	0.0	9.0	0.0	43.1	0.0	47.8	0.0	0.0	0.0
LOS by Move:	A	A	A	A	A	A	D	A	D	A	A	A
HCM2kAvgQ:	0	4	0	0	13	0	2	0	9	0	0	0

Note: Queue reported is the number of cars per lane.

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1001 N Shoreline Blvd Residential Development
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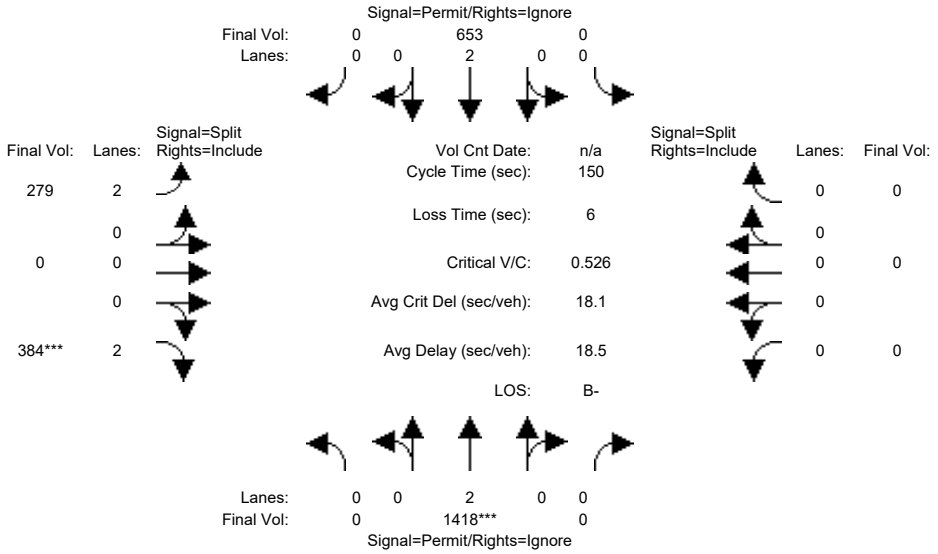
Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Bkgrd+Proj AM

Intersection #3: Shoreline Blvd. & US101/SR 85 SB Ramps



Street Name:	Shoreline Boulevard						US 101/SR85 SB Ramps					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	1389	265	0	641	366	279	0	374	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	1389	265	0	641	366	279	0	374	0	0	0
Added Vol:	0	29	0	0	12	0	0	0	10	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	1418	265	0	653	366	279	0	384	0	0	0
User Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	1418	0	0	653	0	279	0	384	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1418	0	0	653	0	279	0	384	0	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	1418	0	0	653	0	279	0	384	0	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.97	0.92	0.92	0.97	0.92	0.83	1.00	0.83	0.92	1.00	0.92
Lanes:	0.00	2.00	0.00	0.00	2.00	0.00	2.00	0.00	2.00	0.00	0.00	0.00
Final Sat.:	0	3700	0	0	3700	0	3150	0	3150	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.00	0.38	0.00	0.00	0.18	0.00	0.09	0.00	0.12	0.00	0.00	0.00
Crit Moves:		****							****			
Green Time:	0.0	109	0.0	0.0	109	0.0	34.8	0.0	34.8	0.0	0.0	0.0
Volume/Cap:	0.00	0.53	0.00	0.00	0.24	0.00	0.38	0.00	0.53	0.00	0.00	0.00
Delay/Veh:	0.0	9.2	0.0	0.0	6.8	0.0	48.9	0.0	51.1	0.0	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	9.2	0.0	0.0	6.8	0.0	48.9	0.0	51.1	0.0	0.0	0.0
LOS by Move:	A	A	A	A	A	A	D	A	D-	A	A	A
HCM2kAvgQ:	0	14	0	0	5	0	7	0	10	0	0	0

Note: Queue reported is the number of cars per lane.

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1001 N Shoreline Blvd Residential Development
Mountain View, CA
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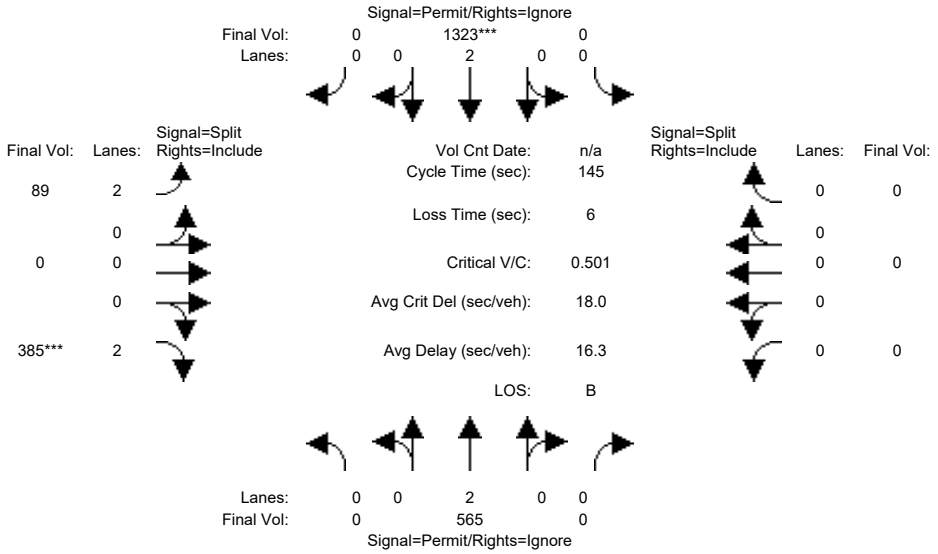
Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Bkgrd+Proj PM

Intersection #3: Shoreline Blvd. & US101/SR 85 SB Ramps



Street Name:	Shoreline Boulevard						US 101/SR85 SB Ramps					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	550	228	0	1292	1712	89	0	369	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	550	228	0	1292	1712	89	0	369	0	0	0
Added Vol:	0	15	0	0	31	0	0	0	16	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	565	228	0	1323	1712	89	0	385	0	0	0
User Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	565	0	0	1323	0	89	0	385	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	565	0	0	1323	0	89	0	385	0	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	565	0	0	1323	0	89	0	385	0	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.97	0.92	0.92	0.97	0.92	0.83	1.00	0.83	0.92	1.00	0.92
Lanes:	0.00	2.00	0.00	0.00	2.00	0.00	2.00	0.00	2.00	0.00	0.00	0.00
Final Sat.:	0	3700	0	0	3700	0	3150	0	3150	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.00	0.15	0.00	0.00	0.36	0.00	0.03	0.00	0.12	0.00	0.00	0.00
Crit Moves:					****				****			
Green Time:	0.0	104	0.0	0.0	104	0.0	35.4	0.0	35.4	0.0	0.0	0.0
Volume/Cap:	0.00	0.21	0.00	0.00	0.50	0.00	0.12	0.00	0.50	0.00	0.00	0.00
Delay/Veh:	0.0	7.0	0.0	0.0	9.4	0.0	42.7	0.0	47.7	0.0	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	7.0	0.0	0.0	9.4	0.0	42.7	0.0	47.7	0.0	0.0	0.0
LOS by Move:	A	A	A	A	A	A	D	A	D	A	A	A
HCM2kAvgQ:	0	4	0	0	13	0	2	0	9	0	0	0

Note: Queue reported is the number of cars per lane.

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1001 N Shoreline Blvd Residential Development
Mountain View, CA
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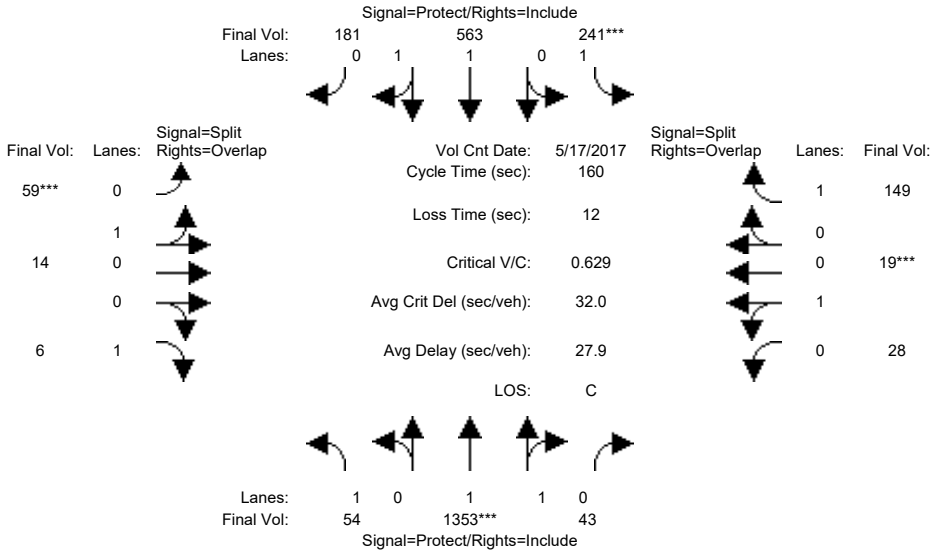
Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background AM

Intersection #4: Shoreline Blvd & Terra Bella Ave



Street Name:	Shoreline Blvd						Terra Bella Ave					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 17 May 2017 << 5:00-6:00 PM												
Base Vol:	54	1353	43	241	563	181	59	14	6	28	19	149
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	54	1353	43	241	563	181	59	14	6	28	19	149
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	54	1353	43	241	563	181	59	14	6	28	19	149
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	54	1353	43	241	563	181	59	14	6	28	19	149
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	54	1353	43	241	563	181	59	14	6	28	19	149
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	54	1353	43	241	563	181	59	14	6	28	19	149
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.97	0.95	0.92	0.98	0.95	0.95	0.95	0.92	0.95	0.95	0.92
Lanes:	1.00	1.94	0.06	1.00	1.50	0.50	0.81	0.19	1.00	0.60	0.40	1.00
Final Sat.:	1750	3586	114	1750	2799	900	1455	345	1750	1072	728	1750
Capacity Analysis Module:												
Vol/Sat:	0.03	0.38	0.38	0.14	0.20	0.20	0.04	0.04	0.00	0.03	0.03	0.09
Crit Moves:		****			****			****			****	
Green Time:	22.9	93.7	93.7	34.2	105	105.1	10.1	10.1	32.9	10.0	10.0	44.2
Volume/Cap:	0.22	0.64	0.64	0.64	0.31	0.31	0.64	0.64	0.02	0.42	0.42	0.31
Delay/Veh:	61.1	22.7	22.7	61.2	11.9	11.9	85.3	85.3	50.7	74.7	74.7	46.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	61.1	22.7	22.7	61.2	11.9	11.9	85.3	85.3	50.7	74.7	74.7	46.2
LOS by Move:	E	C+	C+	E	B+	B+	F	F	D	E	E	D
HCM2kAvgQ:	2	22	22	12	8	8	5	5	0	3	3	6

Note: Queue reported is the number of cars per lane.

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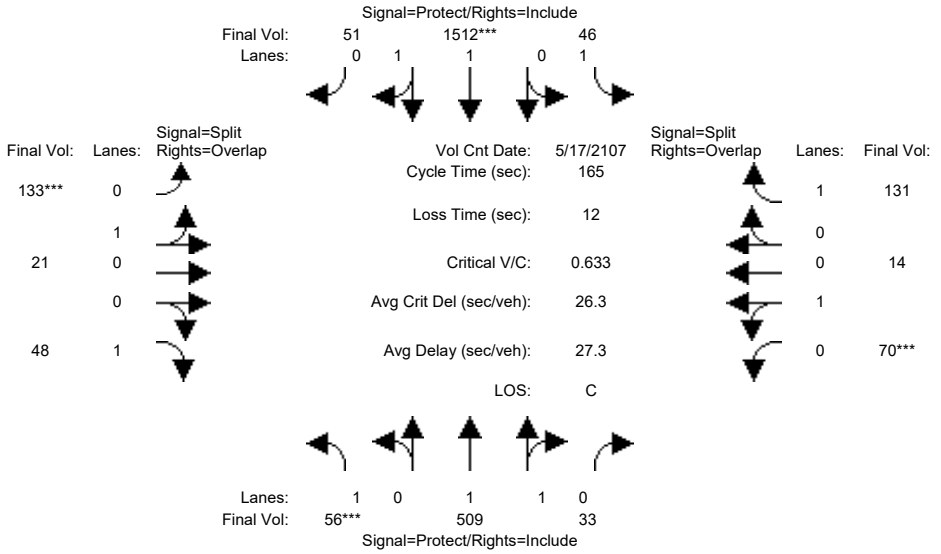
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background PM

Intersection #4: Shoreline Blvd & Terra Bella Ave



Street Name:	Shoreline Blvd						Terra Bella Ave					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 17 May 2107 << 7:45-8:45 AM												
Base Vol:	56	509	33	46	1512	51	133	21	48	70	14	131
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	56	509	33	46	1512	51	133	21	48	70	14	131
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	56	509	33	46	1512	51	133	21	48	70	14	131
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	56	509	33	46	1512	51	133	21	48	70	14	131
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	56	509	33	46	1512	51	133	21	48	70	14	131
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	56	509	33	46	1512	51	133	21	48	70	14	131
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	0.97	0.95	0.95	0.95	0.92	0.95	0.95	0.92
Lanes:	1.00	1.87	0.13	1.00	1.93	0.07	0.86	0.14	1.00	0.83	0.17	1.00
Final Sat.:	1750	3475	225	1750	3579	121	1555	245	1750	1500	300	1750
Capacity Analysis Module:												
Vol/Sat:	0.03	0.15	0.15	0.03	0.42	0.42	0.09	0.09	0.03	0.05	0.05	0.07
Crit Moves:	****				****		****			****		
Green Time:	8.3	91.9	91.9	26.6	110	110.2	22.3	22.3	30.7	12.2	12.2	38.8
Volume/Cap:	0.63	0.26	0.26	0.16	0.63	0.63	0.63	0.63	0.15	0.63	0.63	0.32
Delay/Veh:	90.8	19.0	19.0	59.9	16.3	16.3	72.8	72.8	56.4	83.8	83.8	52.6
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	90.8	19.0	19.0	59.9	16.3	16.3	72.8	72.8	56.4	83.8	83.8	52.6
LOS by Move:	F	B-	B-	E+	B	B	E	E	E+	F	F	D-
HCM2kAvgQ:	3	7	7	2	23	23	9	9	2	5	5	6

Note: Queue reported is the number of cars per lane.

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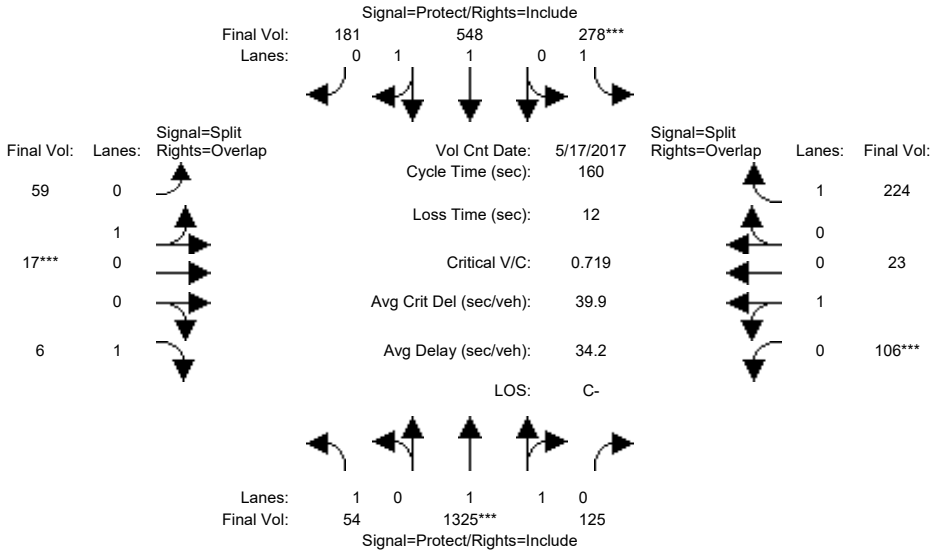
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Bkgrd+Proj AM

Intersection #4: Shoreline Blvd & Terra Bella Ave



Street Name:	Shoreline Blvd						Terra Bella Ave					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 17 May 2017 << 5:00-6:00 PM												
Base Vol:	54	1353	43	241	563	181	59	14	6	28	19	149
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	54	1353	43	241	563	181	59	14	6	28	19	149
Added Vol:	0	0	54	22	0	0	0	3	0	63	4	47
Retail Pass:	0	-28	28	15	-15	0	0	0	0	15	0	28
Initial Fut:	54	1325	125	278	548	181	59	17	6	106	23	224
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	54	1325	125	278	548	181	59	17	6	106	23	224
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	54	1325	125	278	548	181	59	17	6	106	23	224
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	54	1325	125	278	548	181	59	17	6	106	23	224
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	0.98	0.95	0.95	0.95	0.92	0.95	0.95	0.92
Lanes:	1.00	1.82	0.18	1.00	1.49	0.51	0.78	0.22	1.00	0.82	0.18	1.00
Final Sat.:	1750	3381	319	1750	2781	918	1397	403	1750	1479	321	1750
Capacity Analysis Module:												
Vol/Sat:	0.03	0.39	0.39	0.16	0.20	0.20	0.04	0.04	0.00	0.07	0.07	0.13
Crit Moves:		****		****				****		****		
Green Time:	22.2	86.9	86.9	35.2	99.9	99.9	10.0	10.0	32.2	15.9	15.9	51.1
Volume/Cap:	0.22	0.72	0.72	0.72	0.32	0.32	0.68	0.68	0.02	0.72	0.72	0.40
Delay/Veh:	61.7	28.8	28.8	64.4	14.1	14.1	88.5	88.5	51.2	83.4	83.4	43.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	61.7	28.8	28.8	64.4	14.1	14.1	88.5	88.5	51.2	83.4	83.4	43.0
LOS by Move:	E	C	C	E	B	B	F	F	D-	F	F	D
HCM2kAvgQ:	2	26	26	15	8	8	5	5	0	8	8	9

Note: Queue reported is the number of cars per lane.

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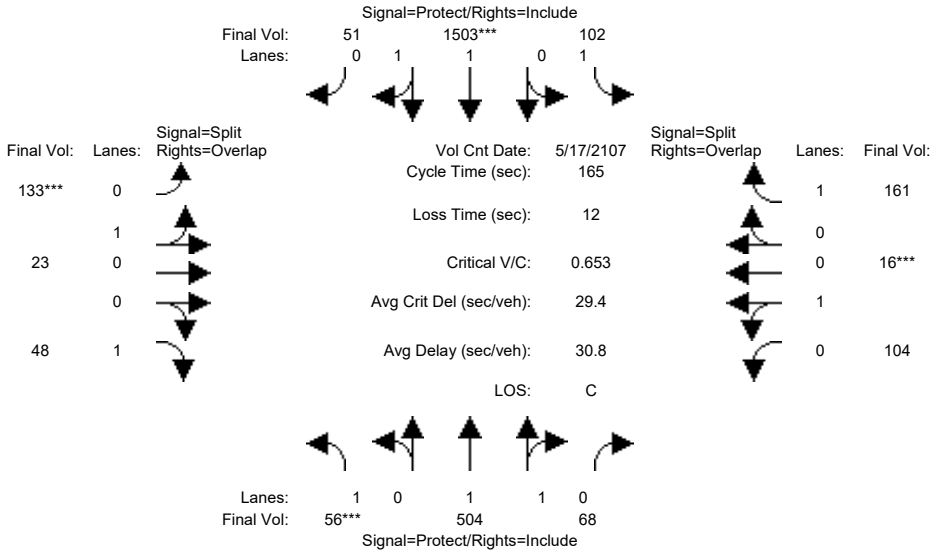
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Bkgrd+Proj PM

Intersection #4: Shoreline Blvd & Terra Bella Ave



Street Name:	Shoreline Blvd						Terra Bella Ave					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 17 May 2107 << 7:45-8:45 AM												
Base Vol:	56	509	33	46	1512	51	133	21	48	70	14	131
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	56	509	33	46	1512	51	133	21	48	70	14	131
Added Vol:	0	0	30	47	0	0	0	2	0	25	2	25
Retail Pass:	0	-5	5	9	-9	0	0	0	0	9	0	5
Initial Fut:	56	504	68	102	1503	51	133	23	48	104	16	161
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	56	504	68	102	1503	51	133	23	48	104	16	161
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	56	504	68	102	1503	51	133	23	48	104	16	161
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	56	504	68	102	1503	51	133	23	48	104	16	161
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	0.97	0.95	0.95	0.95	0.92	0.95	0.95	0.92
Lanes:	1.00	1.76	0.24	1.00	1.93	0.07	0.85	0.15	1.00	0.87	0.13	1.00
Final Sat.:	1750	3260	440	1750	3578	121	1535	265	1750	1560	240	1750
Capacity Analysis Module:												
Vol/Sat:	0.03	0.15	0.15	0.06	0.42	0.42	0.09	0.09	0.03	0.07	0.07	0.09
Crit Moves:	****				****		****				****	
Green Time:	8.1	83.0	83.0	31.3	106	106.2	21.9	21.9	30.0	16.8	16.8	48.1
Volume/Cap:	0.65	0.31	0.31	0.31	0.65	0.65	0.65	0.65	0.15	0.65	0.65	0.32
Delay/Veh:	93.6	24.2	24.2	58.1	18.7	18.7	74.3	74.3	57.0	79.4	79.4	45.9
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	93.6	24.2	24.2	58.1	18.7	18.7	74.3	74.3	57.0	79.4	79.4	45.9
LOS by Move:	F	C	C	E+	B-	B-	E	E	E+	E-	E-	D
HCM2kAvgQ:	3	8	8	5	24	24	9	9	2	7	7	7

Note: Queue reported is the number of cars per lane.

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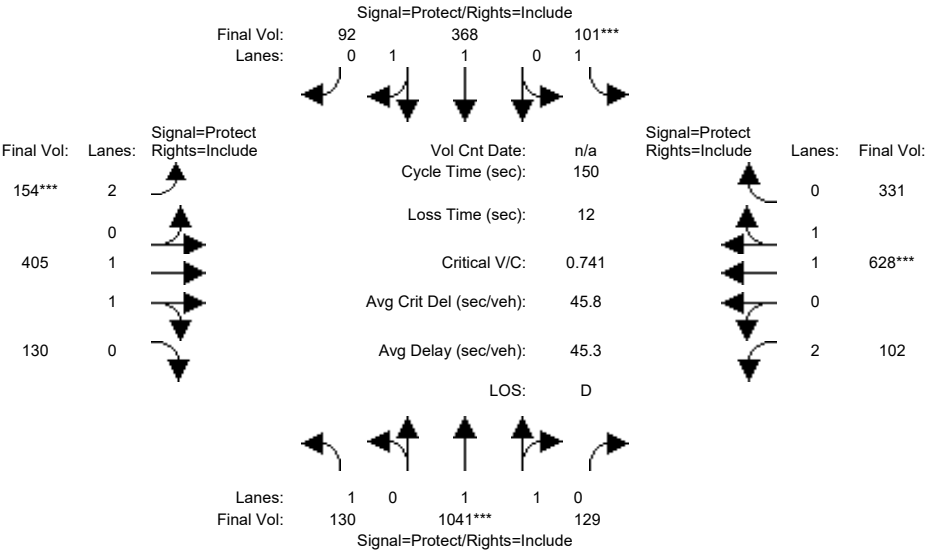
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background AM

Intersection #5: Shoreline Blvd. & Middlefield Rd.



Street Name:	Shoreline Boulevard						Middlefield Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	130	1041	129	101	368	92	154	405	130	102	628	331
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	130	1041	129	101	368	92	154	405	130	102	628	331
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	130	1041	129	101	368	92	154	405	130	102	628	331
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	130	1041	129	101	368	92	154	405	130	102	628	331
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	130	1041	129	101	368	92	154	405	130	102	628	331
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	130	1041	129	101	368	92	154	405	130	102	628	331
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	0.98	0.95	0.83	0.98	0.95	0.83	0.99	0.95
Lanes:	1.00	1.77	0.23	1.00	1.59	0.41	2.00	1.50	0.50	2.00	1.29	0.71
Final Sat.:	1750	3292	408	1750	2959	740	3150	2800	899	3150	2422	1277
Capacity Analysis Module:												
Vol/Sat:	0.07	0.32	0.32	0.06	0.12	0.12	0.05	0.14	0.14	0.03	0.26	0.26
Crit Moves:		****			****			****			****	
Green Time:	28.3	64.0	64.0	11.7	47.4	47.4	9.9	47.1	47.1	15.2	52.5	52.5
Volume/Cap:	0.39	0.74	0.74	0.74	0.39	0.39	0.74	0.46	0.46	0.32	0.74	0.74
Delay/Veh:	54.1	38.0	38.0	87.1	40.3	40.3	82.1	41.5	41.5	63.2	45.2	45.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	54.1	38.0	38.0	87.1	40.3	40.3	82.1	41.5	41.5	63.2	45.2	45.2
LOS by Move:	D-	D+	D+	F	D	D	F	D	D	E	D	D
HCM2kAvgQ:	6	24	24	5	8	8	6	10	10	3	21	21

Note: Queue reported is the number of cars per lane.

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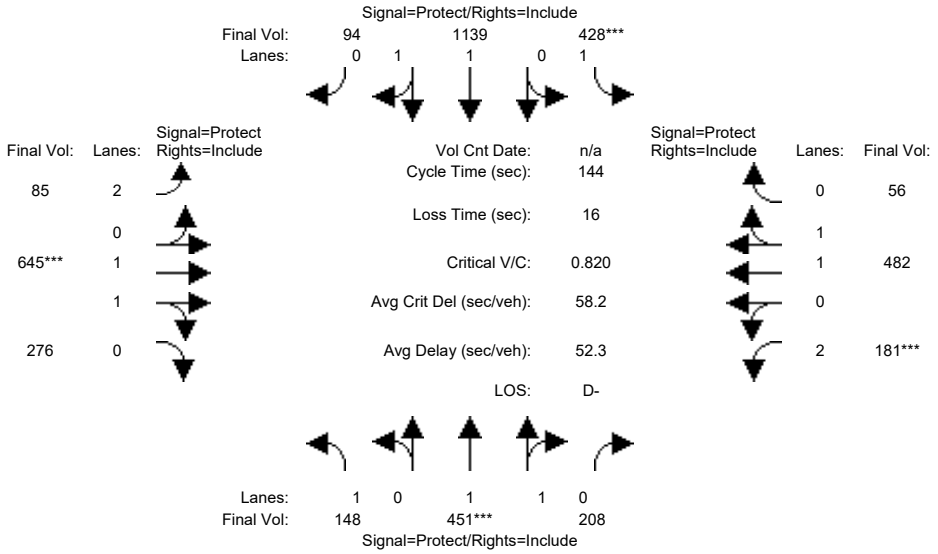
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background PM

Intersection #5: Shoreline Blvd. & Middlefield Rd.



Street Name:	Shoreline Boulevard						Middlefield Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	148	451	208	428	1139	94	85	645	276	181	482	56
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	148	451	208	428	1139	94	85	645	276	181	482	56
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	148	451	208	428	1139	94	85	645	276	181	482	56
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	148	451	208	428	1139	94	85	645	276	181	482	56
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	148	451	208	428	1139	94	85	645	276	181	482	56
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	148	451	208	428	1139	94	85	645	276	181	482	56
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.92	0.98	0.95	0.83	0.98	0.95	0.83	0.98	0.95
Lanes:	1.00	1.35	0.65	1.00	1.84	0.16	2.00	1.38	0.62	2.00	1.79	0.21
Final Sat.:	1750	2531	1167	1750	3418	282	3150	2590	1108	3150	3315	385
Capacity Analysis Module:												
Vol/Sat:	0.08	0.18	0.18	0.24	0.33	0.33	0.03	0.25	0.25	0.06	0.15	0.15
Crit Moves:		****		****				****		****		
Green Time:	15.0	31.3	31.3	42.9	59.2	59.2	13.5	43.7	43.7	10.1	40.3	40.3
Volume/Cap:	0.81	0.82	0.82	0.82	0.81	0.81	0.29	0.82	0.82	0.82	0.52	0.52
Delay/Veh:	86.3	60.4	60.4	56.9	40.9	40.9	61.3	51.4	51.4	87.1	44.1	44.1
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	86.3	60.4	60.4	56.9	40.9	40.9	61.3	51.4	51.4	87.1	44.1	44.1
LOS by Move:	F	E	E	E+	D	D	E	D-	D-	F	D	D
HCM2kAvgQ:	9	16	16	19	25	25	2	21	21	7	10	10

Note: Queue reported is the number of cars per lane.

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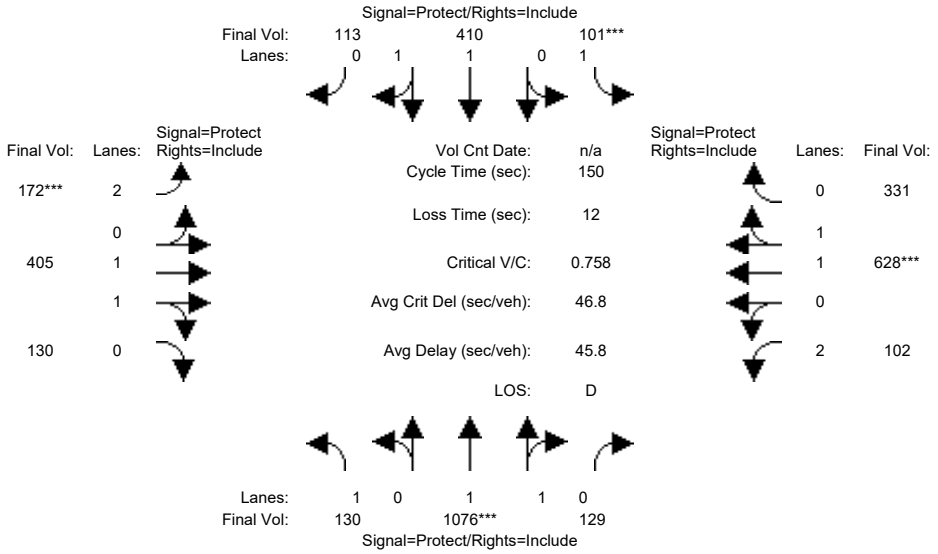
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Bkgrd+Proj AM

Intersection #5: Shoreline Blvd. & Middlefield Rd.



Street Name:	Shoreline Boulevard						Middlefield Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	130	1041	129	101	368	92	154	405	130	102	628	331
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	130	1041	129	101	368	92	154	405	130	102	628	331
Added Vol:	0	35	0	0	42	21	18	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	130	1076	129	101	410	113	172	405	130	102	628	331
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	130	1076	129	101	410	113	172	405	130	102	628	331
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	130	1076	129	101	410	113	172	405	130	102	628	331
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	130	1076	129	101	410	113	172	405	130	102	628	331
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	0.98	0.95	0.83	0.98	0.95	0.83	0.99	0.95
Lanes:	1.00	1.78	0.22	1.00	1.56	0.44	2.00	1.50	0.50	2.00	1.29	0.71
Final Sat.:	1750	3304	396	1750	2900	799	3150	2800	899	3150	2422	1277
Capacity Analysis Module:												
Vol/Sat:	0.07	0.33	0.33	0.06	0.14	0.14	0.05	0.14	0.14	0.03	0.26	0.26
Crit Moves:		****			****			****			****	
Green Time:	26.1	64.5	64.5	11.4	49.7	49.7	10.8	47.0	47.0	15.2	51.3	51.3
Volume/Cap:	0.43	0.76	0.76	0.76	0.43	0.43	0.76	0.46	0.46	0.32	0.76	0.76
Delay/Veh:	56.2	38.3	38.3	89.8	39.3	39.3	82.0	41.7	41.7	63.2	46.5	46.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	56.2	38.3	38.3	89.8	39.3	39.3	82.0	41.7	41.7	63.2	46.5	46.5
LOS by Move:	E+	D+	D+	F	D	D	F	D	D	E	D	D
HCM2kAvgQ:	6	25	25	5	9	9	6	10	10	3	21	21

Note: Queue reported is the number of cars per lane.

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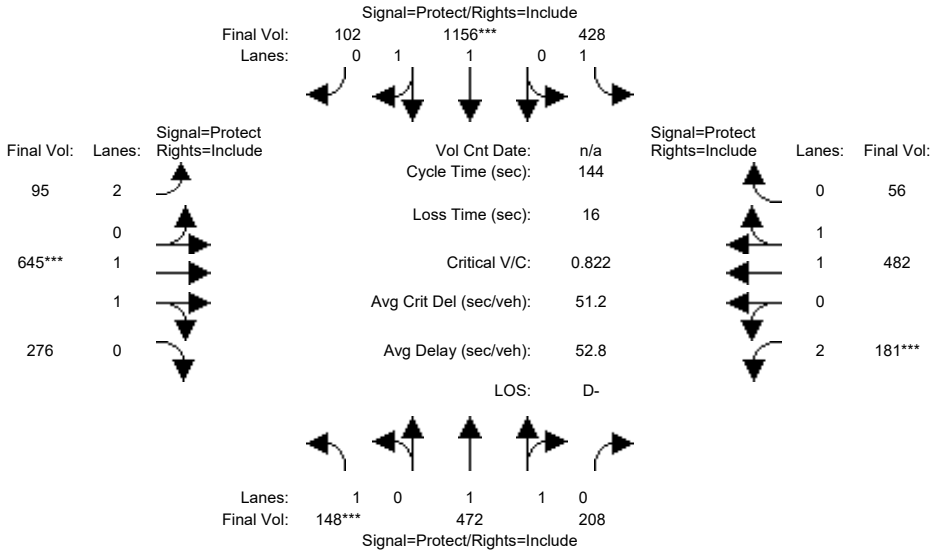
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Bkgrd+Proj PM

Intersection #5: Shoreline Blvd. & Middlefield Rd.



Street Name:	Shoreline Boulevard						Middlefield Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	148	451	208	428	1139	94	85	645	276	181	482	56
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	148	451	208	428	1139	94	85	645	276	181	482	56
Added Vol:	0	21	0	0	17	8	10	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	148	472	208	428	1156	102	95	645	276	181	482	56
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	148	472	208	428	1156	102	95	645	276	181	482	56
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	148	472	208	428	1156	102	95	645	276	181	482	56
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	148	472	208	428	1156	102	95	645	276	181	482	56
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.92	0.98	0.95	0.83	0.98	0.95	0.83	0.98	0.95
Lanes:	1.00	1.37	0.63	1.00	1.83	0.17	2.00	1.38	0.62	2.00	1.79	0.21
Final Sat.:	1750	2567	1131	1750	3400	300	3150	2590	1108	3150	3315	385
Capacity Analysis Module:												
Vol/Sat:	0.08	0.18	0.18	0.24	0.34	0.34	0.03	0.25	0.25	0.06	0.15	0.15
Crit Moves:	****				****			****			****	
Green Time:	14.8	31.9	31.9	42.4	59.5	59.5	13.4	43.6	43.6	10.1	40.2	40.2
Volume/Cap:	0.82	0.83	0.83	0.83	0.82	0.82	0.32	0.82	0.82	0.82	0.52	0.52
Delay/Veh:	88.5	60.6	60.6	58.3	41.3	41.3	61.7	51.6	51.6	87.5	44.2	44.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	88.5	60.6	60.6	58.3	41.3	41.3	61.7	51.6	51.6	87.5	44.2	44.2
LOS by Move:	F	E	E	E+	D	D	E	D-	D-	F	D	D
HCM2kAvgQ:	9	17	17	19	25	25	3	21	21	7	10	10

Note: Queue reported is the number of cars per lane.

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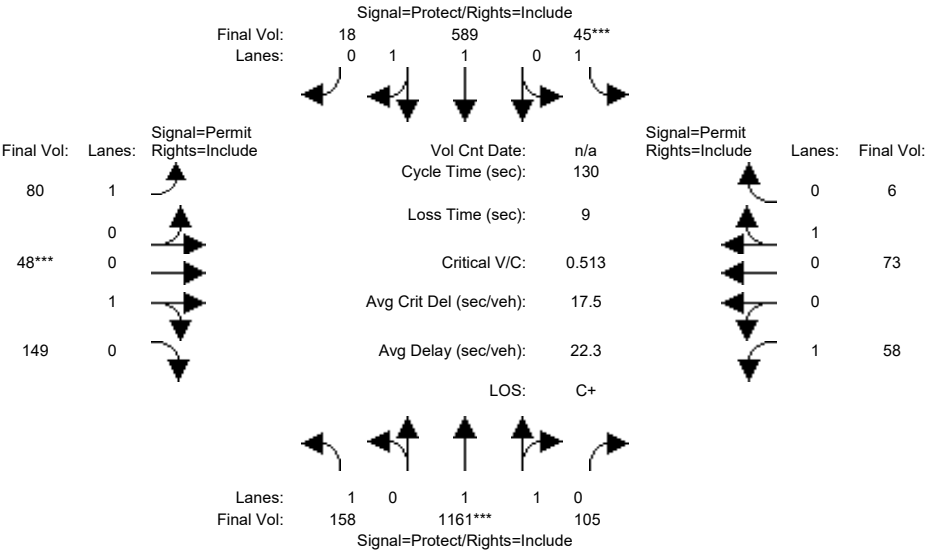
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background AM

Intersection #6: Shoreline Blvd. & Montecitio Ave.



Street Name:	Shorelline Blvd.						Montecitio Ave.					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	158	1161	105	45	589	18	80	48	149	58	73	6
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	158	1161	105	45	589	18	80	48	149	58	73	6
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	158	1161	105	45	589	18	80	48	149	58	73	6
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	158	1161	105	45	589	18	80	48	149	58	73	6
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	158	1161	105	45	589	18	80	48	149	58	73	6
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	158	1161	105	45	589	18	80	48	149	58	73	6
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	0.97	0.95	0.92	0.95	0.95	0.92	0.95	0.95
Lanes:	1.00	1.83	0.17	1.00	1.94	0.06	1.00	0.24	0.76	1.00	0.92	0.08
Final Sat.:	1750	3393	307	1750	3590	110	1750	439	1361	1750	1663	137
Capacity Analysis Module:												
Vol/Sat:	0.09	0.34	0.34	0.03	0.16	0.16	0.05	0.11	0.11	0.03	0.04	0.04
Crit Moves:		****		****				****				
Green Time:	33.1	86.4	86.4	7.0	60.2	60.2	27.6	27.6	27.6	27.6	27.6	27.6
Volume/Cap:	0.35	0.52	0.52	0.48	0.35	0.35	0.22	0.52	0.52	0.16	0.21	0.21
Delay/Veh:	40.1	11.3	11.3	63.5	22.5	22.5	42.5	46.5	46.5	41.9	42.4	42.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	40.1	11.3	11.3	63.5	22.5	22.5	42.5	46.5	46.5	41.9	42.4	42.4
LOS by Move:	D	B+	B+	E	C+	C+	D	D	D	D	D	D
HCM2kAvgQ:	5	13	13	3	8	8	3	8	8	2	3	3

Note: Queue reported is the number of cars per lane.

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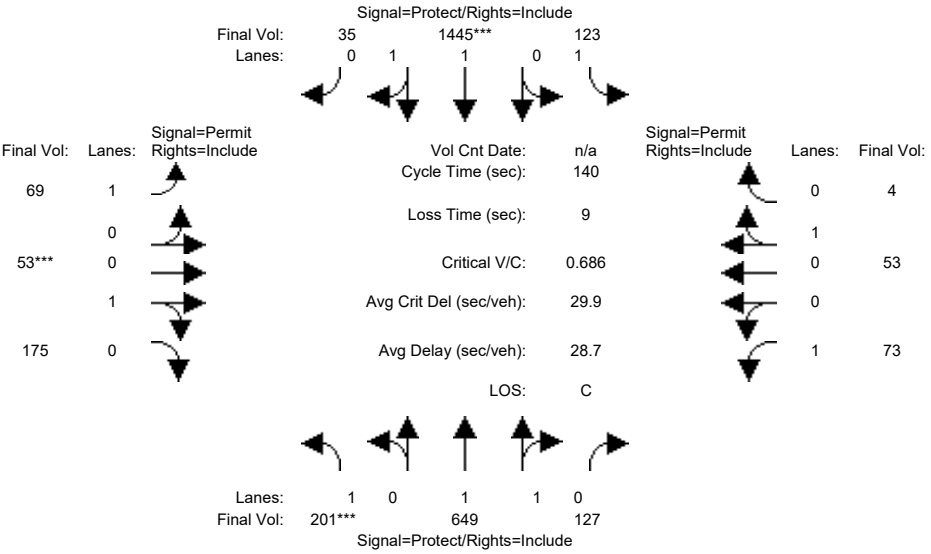
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background PM

Intersection #6: Shoreline Blvd. & Montecitio Ave.



Street Name:	Shorelline Blvd.						Montecitio Ave.					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	201	649	127	123	1445	35	69	53	175	73	53	4
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	201	649	127	123	1445	35	69	53	175	73	53	4
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	201	649	127	123	1445	35	69	53	175	73	53	4
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	201	649	127	123	1445	35	69	53	175	73	53	4
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	201	649	127	123	1445	35	69	53	175	73	53	4
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	201	649	127	123	1445	35	69	53	175	73	53	4
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	0.97	0.95	0.92	0.95	0.95	0.92	0.95	0.95
Lanes:	1.00	1.66	0.34	1.00	1.95	0.05	1.00	0.23	0.77	1.00	0.93	0.07
Final Sat.:	1750	3094	605	1750	3612	87	1750	418	1382	1750	1674	126
Capacity Analysis Module:												
Vol/Sat:	0.11	0.21	0.21	0.07	0.40	0.40	0.04	0.13	0.13	0.04	0.03	0.03
Crit Moves:	****				****			****				
Green Time:	23.5	78.7	78.7	26.4	81.7	81.7	25.9	25.9	25.9	25.9	25.9	25.9
Volume/Cap:	0.69	0.37	0.37	0.37	0.69	0.69	0.21	0.69	0.69	0.23	0.17	0.17
Delay/Veh:	61.4	17.1	17.1	50.3	21.2	21.2	48.8	59.1	59.1	48.9	48.3	48.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	61.4	17.1	17.1	50.3	21.2	21.2	48.8	59.1	59.1	48.9	48.3	48.3
LOS by Move:	E	B	B	D	C+	C+	D	E+	E+	D	D	D
HCM2kAvgQ:	9	9	9	5	23	23	3	11	11	3	2	2

Note: Queue reported is the number of cars per lane.

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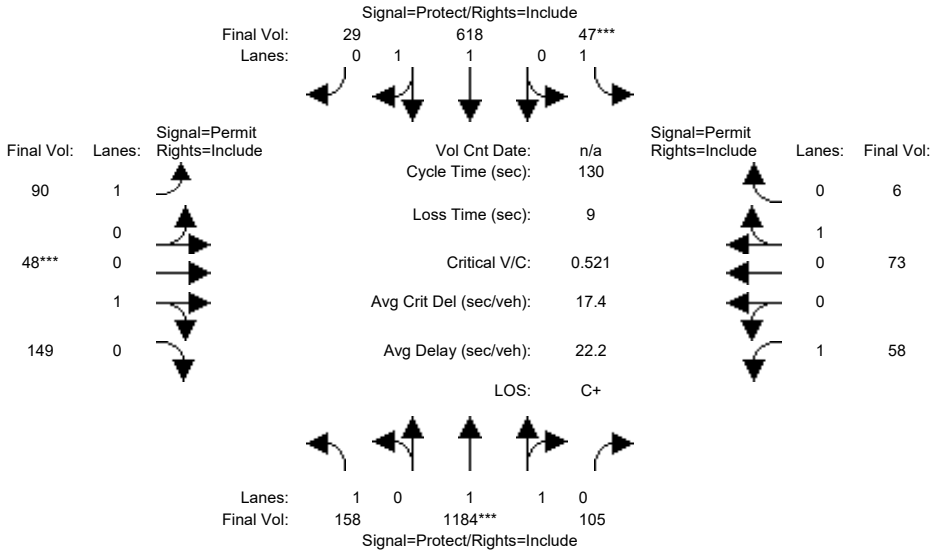
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Bkgrd+Proj AM

Intersection #6: Shoreline Blvd. & Montecitio Ave.



Street Name:	Shorelline Blvd.						Montecitio Ave.					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	158	1161	105	45	589	18	80	48	149	58	73	6
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	158	1161	105	45	589	18	80	48	149	58	73	6
Added Vol:	0	23	0	2	29	11	10	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	158	1184	105	47	618	29	90	48	149	58	73	6
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	158	1184	105	47	618	29	90	48	149	58	73	6
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	158	1184	105	47	618	29	90	48	149	58	73	6
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	158	1184	105	47	618	29	90	48	149	58	73	6
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	0.97	0.95	0.92	0.95	0.95	0.92	0.95	0.95
Lanes:	1.00	1.83	0.17	1.00	1.91	0.09	1.00	0.24	0.76	1.00	0.92	0.08
Final Sat.:	1750	3398	301	1750	3534	166	1750	439	1361	1750	1663	137
Capacity Analysis Module:												
Vol/Sat:	0.09	0.35	0.35	0.03	0.17	0.17	0.05	0.11	0.11	0.03	0.04	0.04
Crit Moves:		****		****				****				
Green Time:	31.9	86.7	86.7	7.0	61.8	61.8	27.3	27.3	27.3	27.3	27.3	27.3
Volume/Cap:	0.37	0.52	0.52	0.50	0.37	0.37	0.25	0.52	0.52	0.16	0.21	0.21
Delay/Veh:	41.2	11.2	11.2	63.9	21.8	21.8	43.2	46.9	46.9	42.2	42.7	42.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	41.2	11.2	11.2	63.9	21.8	21.8	43.2	46.9	46.9	42.2	42.7	42.7
LOS by Move:	D	B+	B+	E	C+	C+	D	D	D	D	D	D
HCM2kAvgQ:	5	13	13	3	8	8	3	8	8	2	3	3

Note: Queue reported is the number of cars per lane.

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1001 N Shoreline Blvd Residential Development
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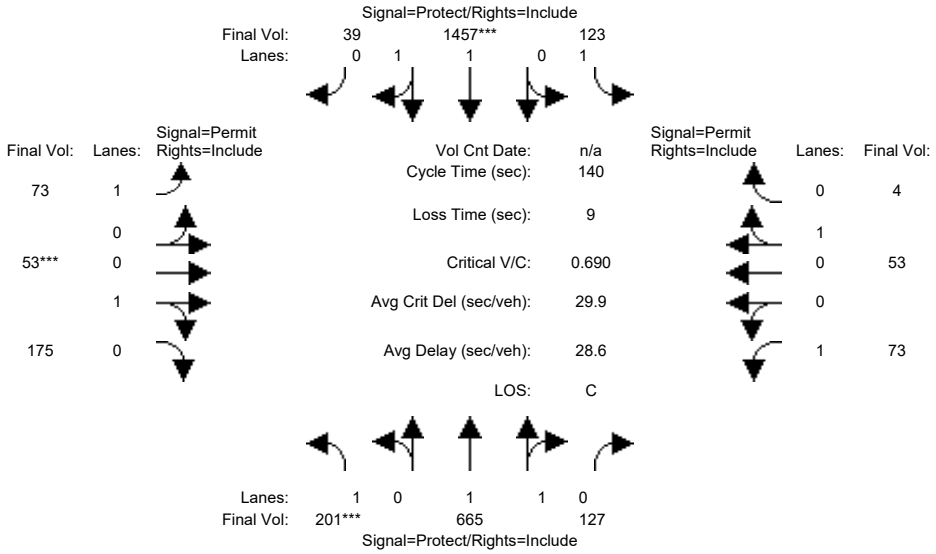
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Bkgrd+Proj PM

Intersection #6: Shoreline Blvd. & Montecitio Ave.



Street Name:	Shorelline Blvd.						Montecitio Ave.					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	201	649	127	123	1445	35	69	53	175	73	53	4
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	201	649	127	123	1445	35	69	53	175	73	53	4
Added Vol:	0	16	0	0	12	4	4	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	201	665	127	123	1457	39	73	53	175	73	53	4
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	201	665	127	123	1457	39	73	53	175	73	53	4
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	201	665	127	123	1457	39	73	53	175	73	53	4
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	201	665	127	123	1457	39	73	53	175	73	53	4
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	0.97	0.95	0.92	0.95	0.95	0.92	0.95	0.95
Lanes:	1.00	1.67	0.33	1.00	1.95	0.05	1.00	0.23	0.77	1.00	0.93	0.07
Final Sat.:	1750	3106	593	1750	3603	96	1750	418	1382	1750	1674	126
Capacity Analysis Module:												
Vol/Sat:	0.11	0.21	0.21	0.07	0.40	0.40	0.04	0.13	0.13	0.04	0.03	0.03
Crit Moves:	****				****			****				
Green Time:	23.3	79.3	79.3	26.0	82.0	82.0	25.7	25.7	25.7	25.7	25.7	25.7
Volume/Cap:	0.69	0.38	0.38	0.38	0.69	0.69	0.23	0.69	0.69	0.23	0.17	0.17
Delay/Veh:	61.8	16.9	16.9	50.6	21.1	21.1	49.1	59.5	59.5	49.1	48.4	48.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	61.8	16.9	16.9	50.6	21.1	21.1	49.1	59.5	59.5	49.1	48.4	48.4
LOS by Move:	E	B	B	D	C+	C+	D	E+	E+	D	D	D
HCM2kAvgQ:	9	9	9	5	23	23	3	11	11	3	2	2

Note: Queue reported is the number of cars per lane.

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1001 N Shoreline Blvd Residential Development
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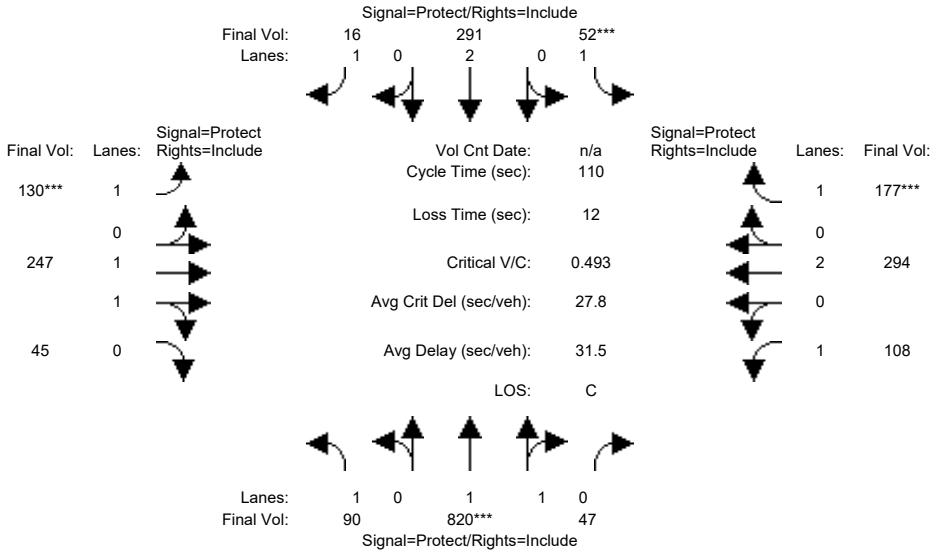
Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background AM

Intersection #7: Rengstorff Ave & Middlefield Rd



Street Name:	Rengstorff Ave						Middlefield Rd					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	10	10	7	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	90	820	47	52	291	16	130	247	45	108	294	177
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	90	820	47	52	291	16	130	247	45	108	294	177
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	90	820	47	52	291	16	130	247	45	108	294	177
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	90	820	47	52	291	16	130	247	45	108	294	177
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	90	820	47	52	291	16	130	247	45	108	294	177
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	90	820	47	52	291	16	130	247	45	108	294	177
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	1.00	0.92	0.92	0.98	0.95	0.92	1.00	0.92
Lanes:	1.00	1.89	0.11	1.00	2.00	1.00	1.00	1.68	0.32	1.00	2.00	1.00
Final Sat.:	1750	3499	201	1750	3800	1750	1750	3129	570	1750	3800	1750
Capacity Analysis Module:												
Vol/Sat:	0.05	0.23	0.23	0.03	0.08	0.01	0.07	0.08	0.08	0.06	0.08	0.10
Crit Moves:		****			****			****				****
Green Time:	24.8	50.3	50.3	10.0	35.5	35.5	16.0	22.2	22.2	15.5	21.7	21.7
Volume/Cap:	0.23	0.51	0.51	0.33	0.24	0.03	0.51	0.39	0.39	0.44	0.39	0.51
Delay/Veh:	35.0	21.4	21.4	48.1	27.4	25.5	45.2	38.4	38.4	44.5	38.7	40.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	35.0	21.4	21.4	48.1	27.4	25.5	45.2	38.4	38.4	44.5	38.7	40.7
LOS by Move:	D+	C+	C+	D	C	C	D	D+	D+	D	D+	D
HCM2kAvgQ:	3	11	11	2	4	0	5	5	5	4	4	6

Note: Queue reported is the number of cars per lane.

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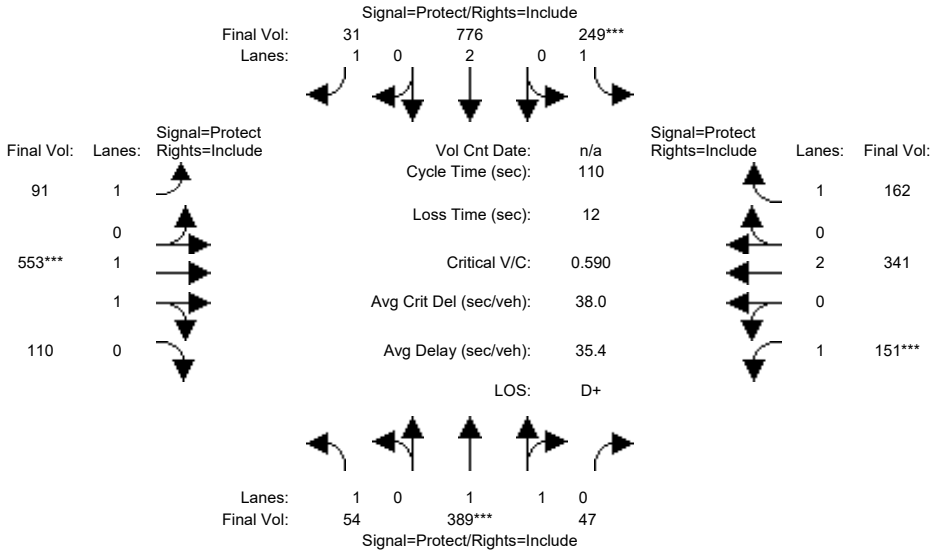
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background PM

Intersection #7: Rengstorff Ave & Middlefield Rd



Street Name:	Rengstorff Ave						Middlefield Rd					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	10	10	7	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	54	389	47	249	776	31	91	553	110	151	341	162
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	54	389	47	249	776	31	91	553	110	151	341	162
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	54	389	47	249	776	31	91	553	110	151	341	162
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	54	389	47	249	776	31	91	553	110	151	341	162
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	54	389	47	249	776	31	91	553	110	151	341	162
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	54	389	47	249	776	31	91	553	110	151	341	162
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	1.00	0.92	0.92	0.98	0.95	0.92	1.00	0.92
Lanes:	1.00	1.78	0.22	1.00	2.00	1.00	1.00	1.66	0.34	1.00	2.00	1.00
Final Sat.:	1750	3301	399	1750	3800	1750	1750	3086	614	1750	3800	1750
Capacity Analysis Module:												
Vol/Sat:	0.03	0.12	0.12	0.14	0.20	0.02	0.05	0.18	0.18	0.09	0.09	0.09
Crit Moves:		****		****				****		****		
Green Time:	11.5	22.0	22.0	26.5	37.0	37.0	20.2	33.4	33.4	16.1	29.3	29.3
Volume/Cap:	0.29	0.59	0.59	0.59	0.61	0.05	0.28	0.59	0.59	0.59	0.34	0.35
Delay/Veh:	46.4	41.2	41.2	39.1	31.3	24.7	39.2	33.3	33.3	47.5	32.7	33.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	46.4	41.2	41.2	39.1	31.3	24.7	39.2	33.3	33.3	47.5	32.7	33.0
LOS by Move:	D	D	D	D	C	C	D	C-	C-	D	C-	C-
HCM2kAvgQ:	2	8	8	9	11	1	3	10	10	5	4	5

Note: Queue reported is the number of cars per lane.

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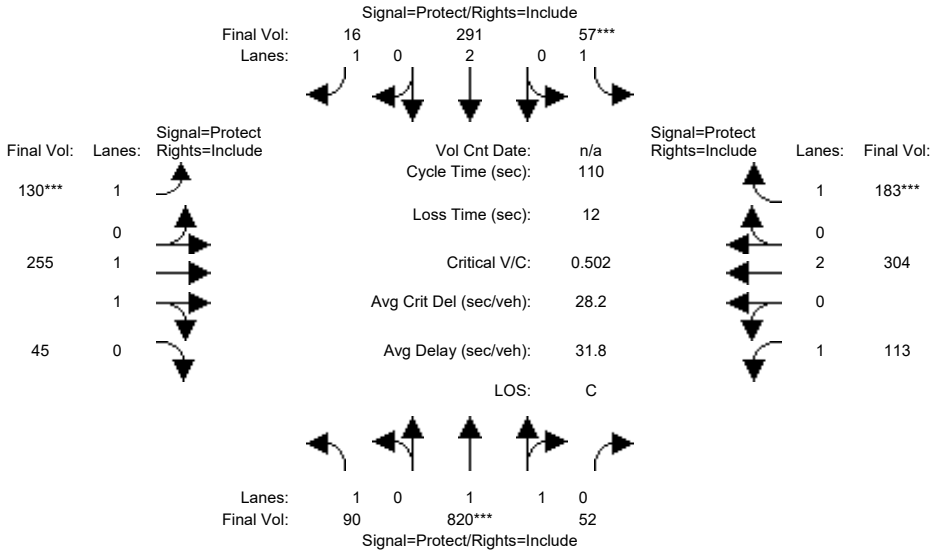
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Bkgrd+Proj AM

Intersection #7: Rengstorff Ave & Middlefield Rd



Street Name:	Rengstorff Ave						Middlefield Rd					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	10	10	7	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	90	820	47	52	291	16	130	247	45	108	294	177
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	90	820	47	52	291	16	130	247	45	108	294	177
Added Vol:	0	0	5	5	0	0	0	8	0	5	10	6
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	90	820	52	57	291	16	130	255	45	113	304	183
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	90	820	52	57	291	16	130	255	45	113	304	183
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	90	820	52	57	291	16	130	255	45	113	304	183
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	90	820	52	57	291	16	130	255	45	113	304	183
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	1.00	0.92	0.92	0.98	0.95	0.92	1.00	0.92
Lanes:	1.00	1.88	0.12	1.00	2.00	1.00	1.00	1.69	0.31	1.00	2.00	1.00
Final Sat.:	1750	3479	221	1750	3800	1750	1750	3145	555	1750	3800	1750
Capacity Analysis Module:												
Vol/Sat:	0.05	0.24	0.24	0.03	0.08	0.01	0.07	0.08	0.08	0.06	0.08	0.10
Crit Moves:		****		****			****					****
Green Time:	24.7	50.0	50.0	10.0	35.3	35.3	15.8	22.2	22.2	15.8	22.2	22.2
Volume/Cap:	0.23	0.52	0.52	0.36	0.24	0.03	0.52	0.40	0.40	0.45	0.40	0.52
Delay/Veh:	35.1	21.7	21.7	48.4	27.6	25.6	45.5	38.5	38.5	44.4	38.4	40.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	35.1	21.7	21.7	48.4	27.6	25.6	45.5	38.5	38.5	44.4	38.4	40.5
LOS by Move:	D+	C+	C+	D	C	C	D	D+	D+	D	D+	D
HCM2kAvgQ:	3	11	11	2	4	0	5	5	5	4	4	6

Note: Queue reported is the number of cars per lane.

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Mountain View, CA
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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
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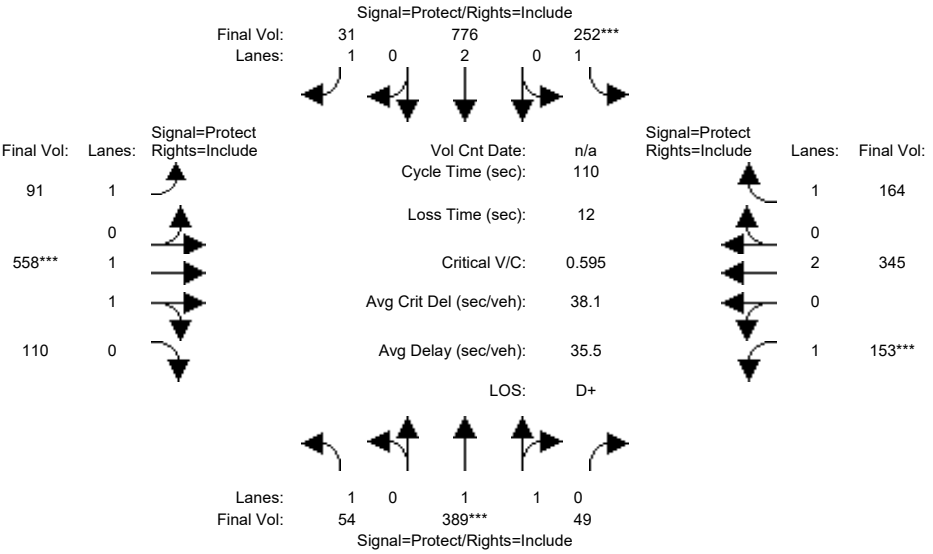
Intersection #7: Rengstorff Ave & Middlefield Rd



Street Name:	Rengstorff Ave						Middlefield Rd					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	10	10	7	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	54	389	47	249	776	31	91	553	110	151	341	162
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	54	389	47	249	776	31	91	553	110	151	341	162
Added Vol:	0	0	2	3	0	0	0	5	0	2	4	2
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	54	389	49	252	776	31	91	558	110	153	345	164
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	54	389	49	252	776	31	91	558	110	153	345	164
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	54	389	49	252	776	31	91	558	110	153	345	164
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	54	389	49	252	776	31	91	558	110	153	345	164
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	1.00	0.92	0.92	0.98	0.95	0.92	1.00	0.92
Lanes:	1.00	1.77	0.23	1.00	2.00	1.00	1.00	1.66	0.34	1.00	2.00	1.00
Final Sat.:	1750	3286	414	1750	3800	1750	1750	3090	609	1750	3800	1750
Capacity Analysis Module:												
Vol/Sat:	0.03	0.12	0.12	0.14	0.20	0.02	0.05	0.18	0.18	0.09	0.09	0.09
Crit Moves:		****		****				****		****		
Green Time:	11.5	21.9	21.9	26.6	37.0	37.0	20.0	33.4	33.4	16.2	29.5	29.5
Volume/Cap:	0.29	0.60	0.60	0.60	0.61	0.05	0.29	0.60	0.60	0.60	0.34	0.35
Delay/Veh:	46.4	41.4	41.4	39.2	31.3	24.7	39.3	33.5	33.5	47.6	32.6	33.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	46.4	41.4	41.4	39.2	31.3	24.7	39.3	33.5	33.5	47.6	32.6	33.0
LOS by Move:	D	D	D	D	C	C	D	C-	C-	D	C-	C-
HCM2kAvgQ:	2	8	8	9	11	1	3	10	10	5	5	5

Note: Queue reported is the number of cars per lane.

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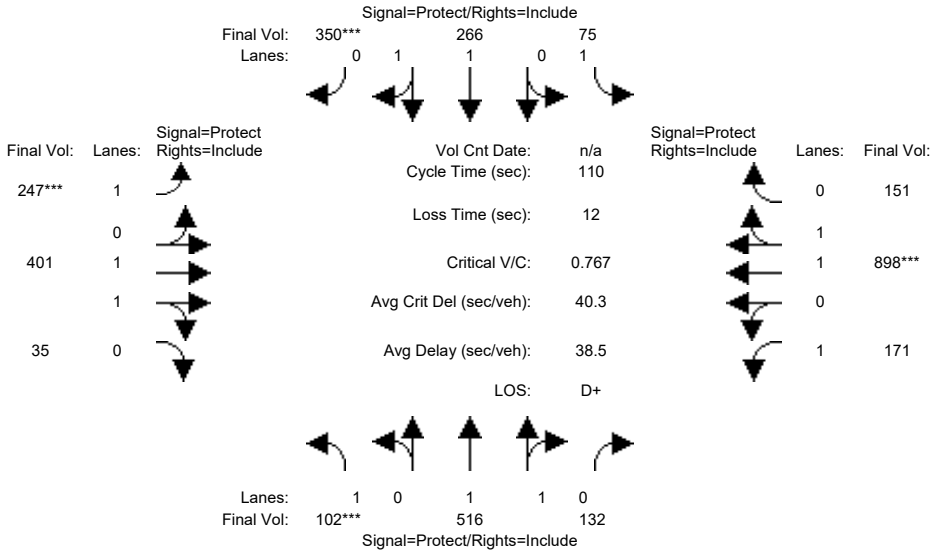
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background AM

Intersection #8: Moffett Blvd & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	102	516	132	75	266	350	247	401	35	171	898	151
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	102	516	132	75	266	350	247	401	35	171	898	151
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	102	516	132	75	266	350	247	401	35	171	898	151
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	102	516	132	75	266	350	247	401	35	171	898	151
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	102	516	132	75	266	350	247	401	35	171	898	151
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	102	516	132	75	266	350	247	401	35	171	898	151
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	1.00	0.92	0.92	0.98	0.95	0.92	0.98	0.95
Lanes:	1.00	1.58	0.42	1.00	1.00	1.00	1.00	1.84	0.16	1.00	1.70	0.30
Final Sat.:	1750	2946	754	1750	1900	1750	1750	3403	297	1750	3167	533
Capacity Analysis Module:												
Vol/Sat:	0.06	0.18	0.18	0.04	0.14	0.20	0.14	0.12	0.12	0.10	0.28	0.28
Crit Moves:	****					****	****				****	
Green Time:	8.4	27.2	27.2	9.9	28.7	28.7	20.3	33.3	33.3	27.6	40.7	40.7
Volume/Cap:	0.77	0.71	0.71	0.48	0.54	0.77	0.77	0.39	0.39	0.39	0.77	0.77
Delay/Veh:	72.9	40.4	40.4	49.9	35.4	42.0	53.2	30.5	30.5	34.8	33.1	33.1
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	72.9	40.4	40.4	49.9	35.4	42.0	53.2	30.5	30.5	34.8	33.1	33.1
LOS by Move:	E	D	D	D	D+	D	D-	C	C	C-	C-	C-
HCM2kAvgQ:	4	10	10	3	8	13	10	6	6	5	16	16

Note: Queue reported is the number of cars per lane.

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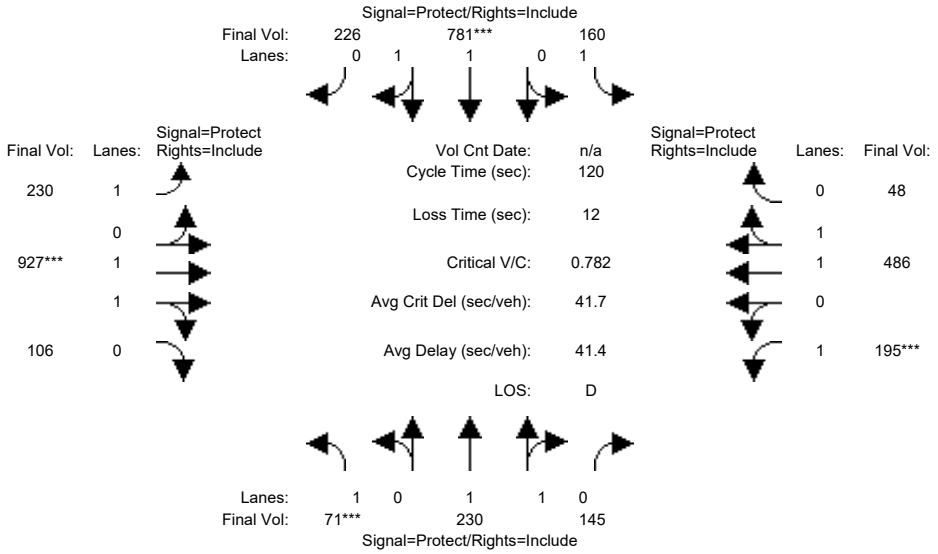
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background PM

Intersection #8: Moffett Blvd & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	71	230	145	160	781	226	230	927	106	195	486	48
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	71	230	145	160	781	226	230	927	106	195	486	48
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	71	230	145	160	781	226	230	927	106	195	486	48
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	71	230	145	160	781	226	230	927	106	195	486	48
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	71	230	145	160	781	226	230	927	106	195	486	48
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	71	230	145	160	781	226	230	927	106	195	486	48
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.92	0.98	0.95	0.92	0.98	0.95	0.92	0.98	0.95
Lanes:	1.00	1.21	0.79	1.00	1.54	0.46	1.00	1.79	0.21	1.00	1.82	0.18
Final Sat.:	1750	2268	1430	1750	2869	830	1750	3320	380	1750	3367	333
Capacity Analysis Module:												
Vol/Sat:	0.04	0.10	0.10	0.09	0.27	0.27	0.13	0.28	0.28	0.11	0.14	0.14
Crit Moves:	****				****			****			****	
Green Time:	7.0	25.5	25.5	23.0	41.5	41.5	28.4	42.5	42.5	17.0	31.2	31.2
Volume/Cap:	0.70	0.48	0.48	0.48	0.79	0.79	0.56	0.79	0.79	0.79	0.56	0.56
Delay/Veh:	74.3	41.9	41.9	44.2	38.6	38.6	42.0	37.9	37.9	65.2	39.2	39.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	74.3	41.9	41.9	44.2	38.6	38.6	42.0	37.9	37.9	65.2	39.2	39.2
LOS by Move:	E	D	D	D	D+	D+	D	D+	D+	E	D	D
HCM2kAvgQ:	3	6	6	6	19	19	9	19	19	8	9	9

Note: Queue reported is the number of cars per lane.

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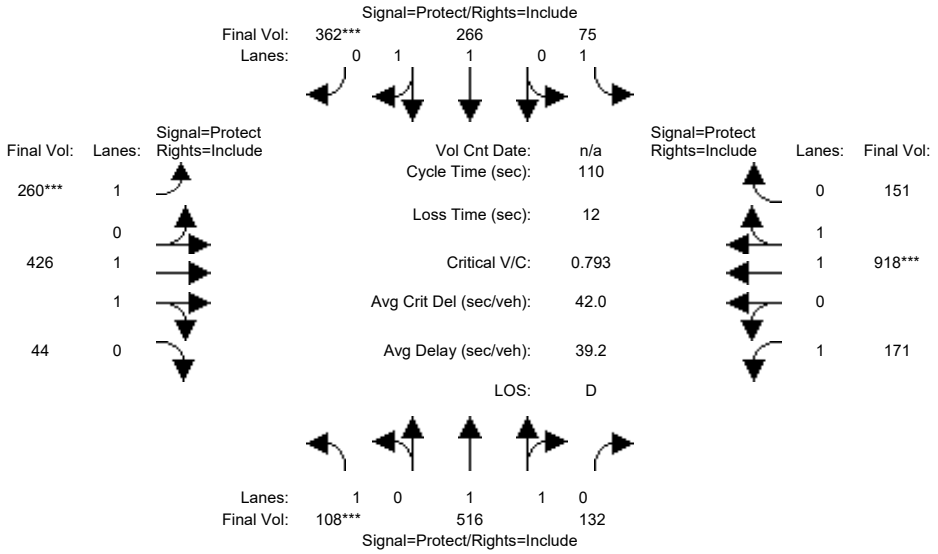
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Bkgrd+Proj AM

Intersection #8: Moffett Blvd & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	102	516	132	75	266	350	247	401	35	171	898	151
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	102	516	132	75	266	350	247	401	35	171	898	151
Added Vol:	6	0	0	0	0	12	13	25	9	0	20	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	108	516	132	75	266	362	260	426	44	171	918	151
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	108	516	132	75	266	362	260	426	44	171	918	151
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	108	516	132	75	266	362	260	426	44	171	918	151
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	108	516	132	75	266	362	260	426	44	171	918	151
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	1.00	0.92	0.92	0.98	0.95	0.92	0.98	0.95
Lanes:	1.00	1.58	0.42	1.00	1.00	1.00	1.00	1.81	0.19	1.00	1.71	0.29
Final Sat.:	1750	2946	754	1750	1900	1750	1750	3353	346	1750	3177	523
Capacity Analysis Module:												
Vol/Sat:	0.06	0.18	0.18	0.04	0.14	0.21	0.15	0.13	0.13	0.10	0.29	0.29
Crit Moves:	****					****	****				****	
Green Time:	8.6	27.3	27.3	9.9	28.7	28.7	20.6	34.3	34.3	26.4	40.1	40.1
Volume/Cap:	0.79	0.70	0.70	0.47	0.54	0.79	0.79	0.41	0.41	0.41	0.79	0.79
Delay/Veh:	76.2	40.2	40.2	49.8	35.4	43.4	55.0	30.1	30.1	35.9	34.5	34.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	76.2	40.2	40.2	49.8	35.4	43.4	55.0	30.1	30.1	35.9	34.5	34.5
LOS by Move:	E-	D	D	D	D+	D	E+	C	C	D+	C-	C-
HCM2kAvgQ:	4	10	10	3	8	14	11	6	6	5	17	17

Note: Queue reported is the number of cars per lane.

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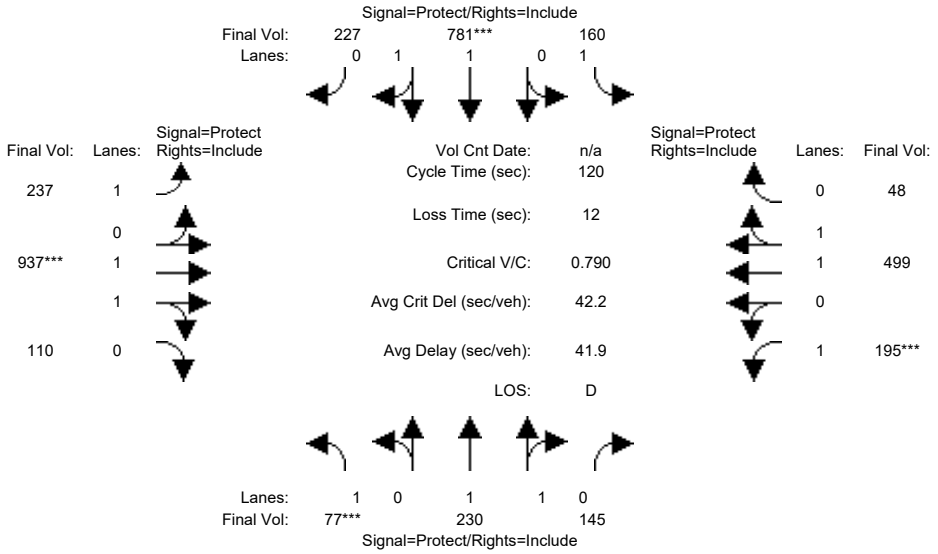
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Bkgrd+Proj PM

Intersection #8: Moffett Blvd & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	71	230	145	160	781	226	230	927	106	195	486	48
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	71	230	145	160	781	226	230	927	106	195	486	48
Added Vol:	6	0	0	0	0	1	7	10	4	0	13	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	77	230	145	160	781	227	237	937	110	195	499	48
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	77	230	145	160	781	227	237	937	110	195	499	48
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	77	230	145	160	781	227	237	937	110	195	499	48
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	77	230	145	160	781	227	237	937	110	195	499	48
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.92	0.98	0.95	0.92	0.98	0.95	0.92	0.98	0.95
Lanes:	1.00	1.21	0.79	1.00	1.54	0.46	1.00	1.78	0.22	1.00	1.82	0.18
Final Sat.:	1750	2268	1430	1750	2866	833	1750	3311	389	1750	3375	325
Capacity Analysis Module:												
Vol/Sat:	0.04	0.10	0.10	0.09	0.27	0.27	0.14	0.28	0.28	0.11	0.15	0.15
Crit Moves:	****				****			****			****	
Green Time:	7.0	25.4	25.4	22.9	41.3	41.3	28.6	42.9	42.9	16.9	31.2	31.2
Volume/Cap:	0.75	0.48	0.48	0.48	0.79	0.79	0.57	0.79	0.79	0.79	0.57	0.57
Delay/Veh:	82.5	42.0	42.0	44.3	39.0	39.0	42.2	37.9	37.9	65.8	39.4	39.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	82.5	42.0	42.0	44.3	39.0	39.0	42.2	37.9	37.9	65.8	39.4	39.4
LOS by Move:	F	D	D	D	D+	D+	D	D+	D+	E	D	D
HCM2kAvgQ:	3	6	6	6	19	19	9	19	19	8	9	9

Note: Queue reported is the number of cars per lane.

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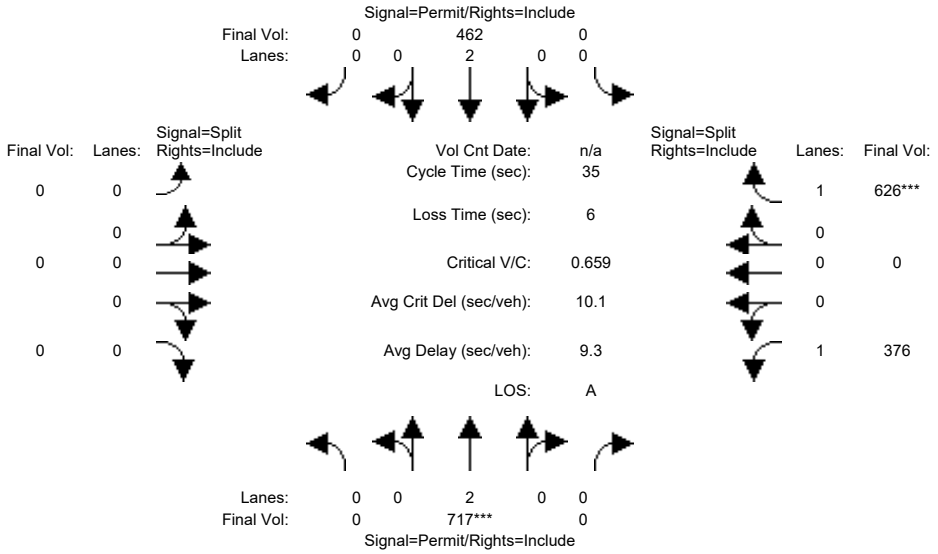
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background AM

Intersection #9: Moffett Blvd & SR 85 NB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	10	0	0	10	0	0	0	0	10	0	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	717	0	0	462	0	0	0	0	376	0	626
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	717	0	0	462	0	0	0	0	376	0	626
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	717	0	0	462	0	0	0	0	376	0	626
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	717	0	0	462	0	0	0	0	376	0	626
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	717	0	0	462	0	0	0	0	376	0	626
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	717	0	0	462	0	0	0	0	376	0	626
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	0	3800	0	0	3800	0	0	0	0	1750	0	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.19	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.21	0.00	0.36
Crit Moves:		****										****
Green Time:	0.0	10.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	19.0	0.0	19.0
Volume/Cap:	0.00	0.66	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.40	0.00	0.66
Delay/Veh:	0.0	12.5	0.0	0.0	10.4	0.0	0.0	0.0	0.0	4.9	0.0	7.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	12.5	0.0	0.0	10.4	0.0	0.0	0.0	0.0	4.9	0.0	7.4
LOS by Move:	A	B	A	A	B+	A	A	A	A	A	A	A
HCM2kAvgQ:	0	5	0	0	2	0	0	0	0	3	0	7

Note: Queue reported is the number of cars per lane.

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1001 N Shoreline Blvd Residential Development
Mountain View, CA
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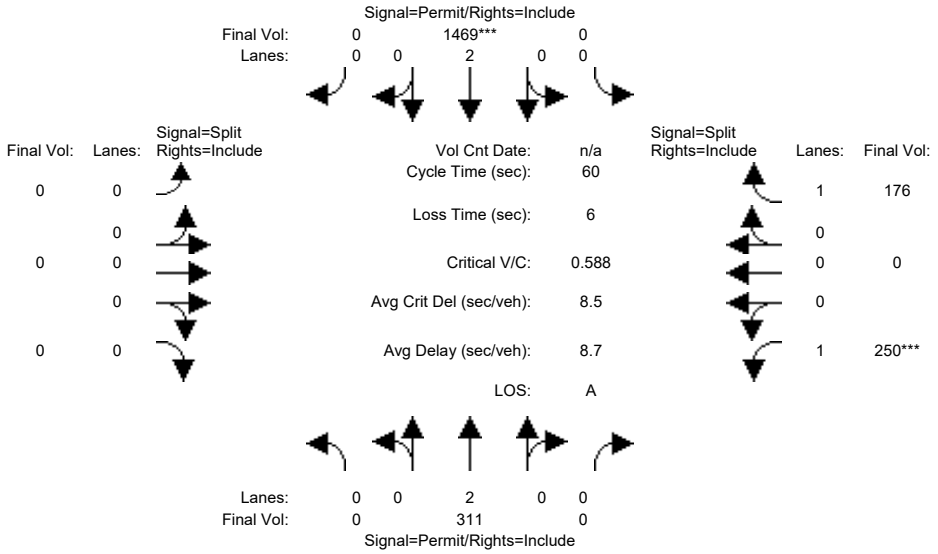
Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background PM

Intersection #9: Moffett Blvd & SR 85 NB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	10	0	0	10	0	0	0	0	10	0	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	311	0	0	1469	0	0	0	0	250	0	176
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	311	0	0	1469	0	0	0	0	250	0	176
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	311	0	0	1469	0	0	0	0	250	0	176
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	311	0	0	1469	0	0	0	0	250	0	176
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	311	0	0	1469	0	0	0	0	250	0	176
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	311	0	0	1469	0	0	0	0	250	0	176
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	0	3800	0	0	3800	0	0	0	0	1750	0	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.08	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.14	0.00	0.10
Crit Moves:					****					****		
Green Time:	0.0	39.4	0.0	0.0	39.4	0.0	0.0	0.0	0.0	14.6	0.0	14.6
Volume/Cap:	0.00	0.12	0.00	0.00	0.59	0.00	0.00	0.00	0.00	0.59	0.00	0.41
Delay/Veh:	0.0	3.9	0.0	0.0	6.1	0.0	0.0	0.0	0.0	22.2	0.0	19.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	3.9	0.0	0.0	6.1	0.0	0.0	0.0	0.0	22.2	0.0	19.8
LOS by Move:	A	A	A	A	A	A	A	A	A	C+	A	B-
HCM2kAvgQ:	0	1	0	0	7	0	0	0	0	5	0	3

Note: Queue reported is the number of cars per lane.

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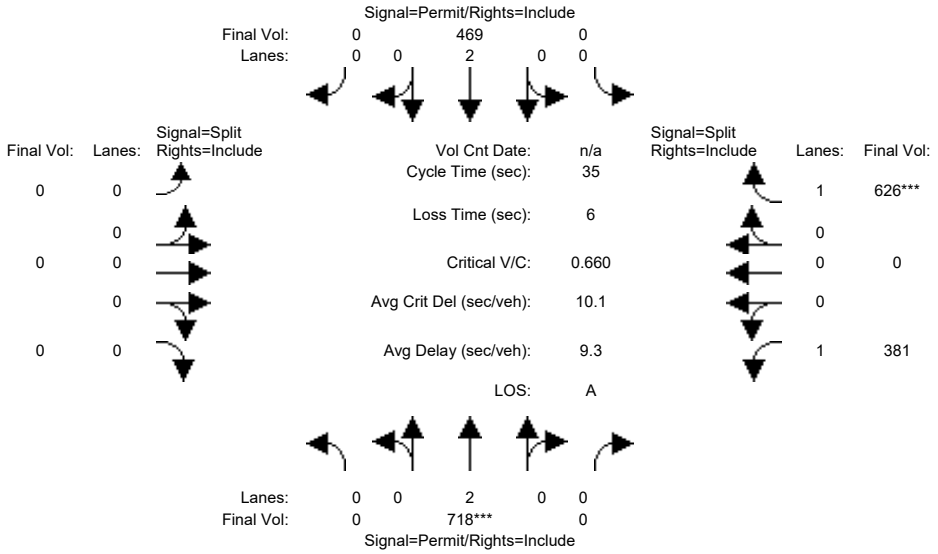
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Bkgrd+Proj AM

Intersection #9: Moffett Blvd & SR 85 NB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	10	0	0	10	0	0	0	0	10	0	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	717	0	0	462	0	0	0	0	376	0	626
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	717	0	0	462	0	0	0	0	376	0	626
Added Vol:	0	1	0	0	7	0	0	0	0	5	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	718	0	0	469	0	0	0	0	381	0	626
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	718	0	0	469	0	0	0	0	381	0	626
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	718	0	0	469	0	0	0	0	381	0	626
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	718	0	0	469	0	0	0	0	381	0	626
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	0	3800	0	0	3800	0	0	0	0	1750	0	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.19	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.22	0.00	0.36
Crit Moves:		****										****
Green Time:	0.0	10.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	19.0	0.0	19.0
Volume/Cap:	0.00	0.66	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.40	0.00	0.66
Delay/Veh:	0.0	12.5	0.0	0.0	10.4	0.0	0.0	0.0	0.0	5.0	0.0	7.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	12.5	0.0	0.0	10.4	0.0	0.0	0.0	0.0	5.0	0.0	7.4
LOS by Move:	A	B	A	A	B+	A	A	A	A	A	A	A
HCM2kAvgQ:	0	5	0	0	2	0	0	0	0	3	0	7

Note: Queue reported is the number of cars per lane.

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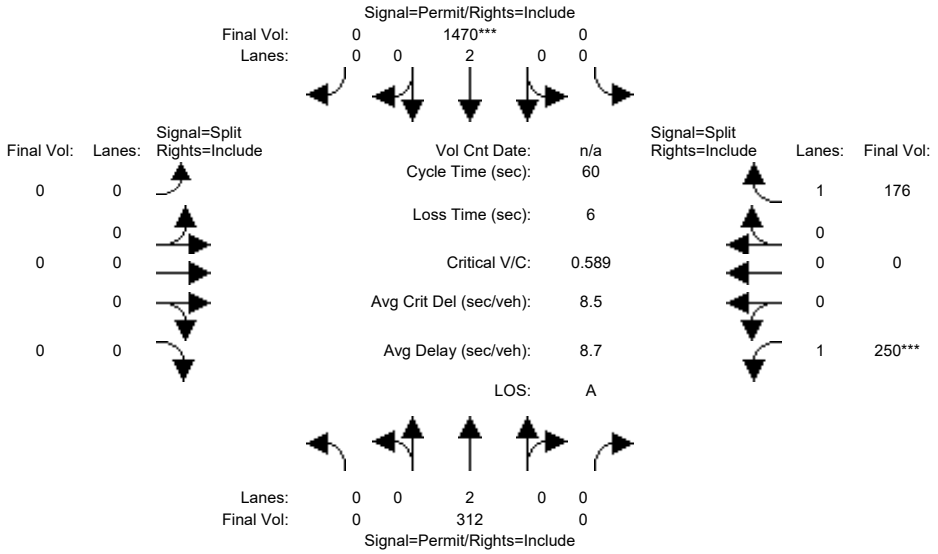
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Bkgrd+Proj PM

Intersection #9: Moffett Blvd & SR 85 NB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	10	0	0	10	0	0	0	0	10	0	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	311	0	0	1469	0	0	0	0	250	0	176
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	311	0	0	1469	0	0	0	0	250	0	176
Added Vol:	0	1	0	0	1	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	312	0	0	1470	0	0	0	0	250	0	176
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	312	0	0	1470	0	0	0	0	250	0	176
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	312	0	0	1470	0	0	0	0	250	0	176
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	312	0	0	1470	0	0	0	0	250	0	176
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	0	3800	0	0	3800	0	0	0	0	1750	0	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.08	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.14	0.00	0.10
Crit Moves:					****					****		
Green Time:	0.0	39.4	0.0	0.0	39.4	0.0	0.0	0.0	0.0	14.6	0.0	14.6
Volume/Cap:	0.00	0.12	0.00	0.00	0.59	0.00	0.00	0.00	0.00	0.59	0.00	0.41
Delay/Veh:	0.0	3.9	0.0	0.0	6.1	0.0	0.0	0.0	0.0	22.2	0.0	19.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	3.9	0.0	0.0	6.1	0.0	0.0	0.0	0.0	22.2	0.0	19.8
LOS by Move:	A	A	A	A	A	A	A	A	A	C+	A	B-
HCM2kAvgQ:	0	1	0	0	7	0	0	0	0	5	0	3

Note: Queue reported is the number of cars per lane.

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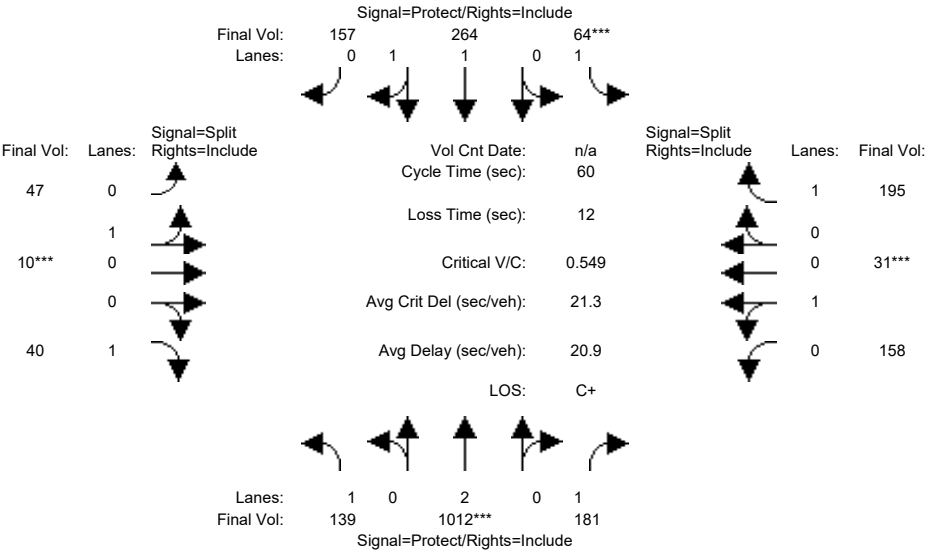
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background AM

Intersection #10: Moffett Blvd & Leong Dr



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	139	1012	181	64	264	157	47	10	40	158	31	195
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	139	1012	181	64	264	157	47	10	40	158	31	195
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	139	1012	181	64	264	157	47	10	40	158	31	195
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	139	1012	181	64	264	157	47	10	40	158	31	195
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	139	1012	181	64	264	157	47	10	40	158	31	195
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	139	1012	181	64	264	157	47	10	40	158	31	195
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	0.99	0.95	0.95	0.95	0.92	0.95	0.95	0.92
Lanes:	1.00	2.00	1.00	1.00	1.23	0.77	0.82	0.18	1.00	0.84	0.16	1.00
Final Sat.:	1750	3800	1750	1750	2319	1379	1484	316	1750	1505	295	1750
Capacity Analysis Module:												
Vol/Sat:	0.08	0.27	0.10	0.04	0.11	0.11	0.03	0.03	0.02	0.11	0.11	0.11
Crit Moves:		****		****				****			****	
Green Time:	11.5	21.0	21.0	7.0	16.5	16.5	10.0	10.0	10.0	10.0	10.0	10.0
Volume/Cap:	0.41	0.76	0.30	0.31	0.41	0.41	0.19	0.19	0.14	0.63	0.63	0.67
Delay/Veh:	22.1	19.9	14.4	25.2	18.1	18.1	21.8	21.8	21.5	27.5	27.5	29.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	22.1	19.9	14.4	25.2	18.1	18.1	21.8	21.8	21.5	27.5	27.5	29.3
LOS by Move:	C+	B-	B	C	B-	B-	C+	C+	C+	C	C	C
HCM2kAvgQ:	2	8	2	1	3	3	1	1	1	5	5	5

Note: Queue reported is the number of cars per lane.

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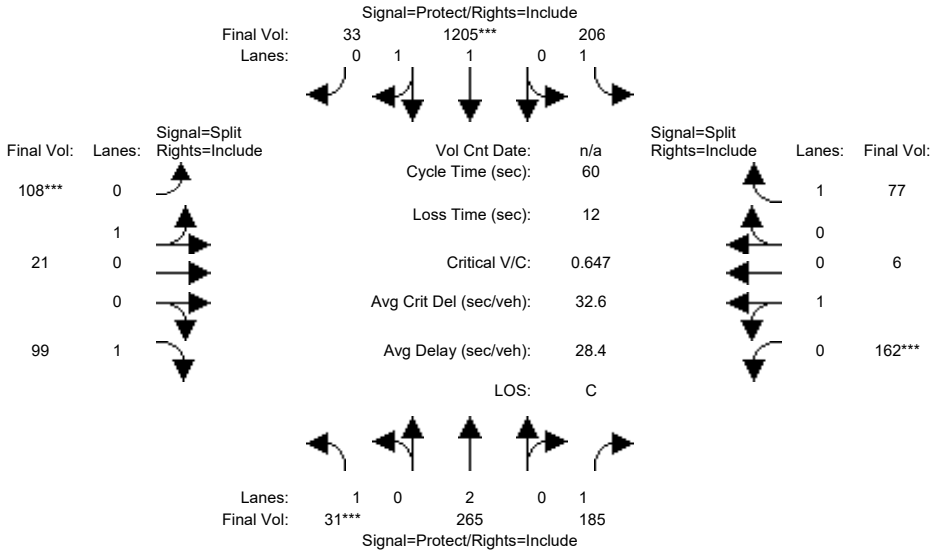
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background PM

Intersection #10: Moffett Blvd & Leong Dr



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	31	265	185	206	1205	33	108	21	99	162	6	77
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	31	265	185	206	1205	33	108	21	99	162	6	77
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	31	265	185	206	1205	33	108	21	99	162	6	77
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	31	265	185	206	1205	33	108	21	99	162	6	77
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	31	265	185	206	1205	33	108	21	99	162	6	77
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	31	265	185	206	1205	33	108	21	99	162	6	77
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	0.97	0.95	0.95	0.95	0.92	0.95	0.95	0.92
Lanes:	1.00	2.00	1.00	1.00	1.95	0.05	0.84	0.16	1.00	0.96	0.04	1.00
Final Sat.:	1750	3800	1750	1750	3601	99	1507	293	1750	1736	64	1750
Capacity Analysis Module:												
Vol/Sat:	0.02	0.07	0.11	0.12	0.33	0.33	0.07	0.07	0.06	0.09	0.09	0.04
Crit Moves:	****				****		****			****		
Green Time:	7.0	16.4	16.4	11.6	21.0	21.0	10.0	10.0	10.0	10.0	10.0	10.0
Volume/Cap:	0.15	0.25	0.39	0.61	0.96	0.96	0.43	0.43	0.34	0.56	0.56	0.26
Delay/Veh:	24.2	17.2	18.2	25.4	34.7	34.7	23.4	23.4	22.8	25.4	25.4	22.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	24.2	17.2	18.2	25.4	34.7	34.7	23.4	23.4	22.8	25.4	25.4	22.3
LOS by Move:	C	B	B-	C	C-	C-	C	C	C+	C	C	C+
HCM2kAvgQ:	1	2	3	4	15	15	3	3	2	4	4	2

Note: Queue reported is the number of cars per lane.

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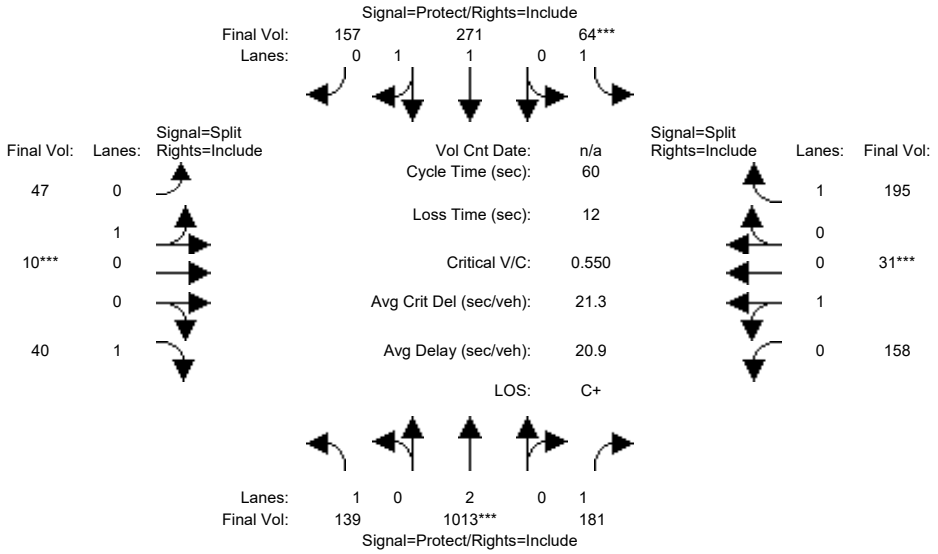
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Bkgrd+Proj AM

Intersection #10: Moffett Blvd & Leong Dr



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	139	1012	181	64	264	157	47	10	40	158	31	195
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	139	1012	181	64	264	157	47	10	40	158	31	195
Added Vol:	0	1	0	0	7	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	139	1013	181	64	271	157	47	10	40	158	31	195
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	139	1013	181	64	271	157	47	10	40	158	31	195
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	139	1013	181	64	271	157	47	10	40	158	31	195
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	139	1013	181	64	271	157	47	10	40	158	31	195
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	0.99	0.95	0.95	0.95	0.92	0.95	0.95	0.92
Lanes:	1.00	2.00	1.00	1.00	1.25	0.75	0.82	0.18	1.00	0.84	0.16	1.00
Final Sat.:	1750	3800	1750	1750	2342	1357	1484	316	1750	1505	295	1750
Capacity Analysis Module:												
Vol/Sat:	0.08	0.27	0.10	0.04	0.12	0.12	0.03	0.03	0.02	0.11	0.11	0.11
Crit Moves:		****		****				****			****	
Green Time:	11.5	21.0	21.0	7.0	16.5	16.5	10.0	10.0	10.0	10.0	10.0	10.0
Volume/Cap:	0.41	0.76	0.30	0.31	0.42	0.42	0.19	0.19	0.14	0.63	0.63	0.67
Delay/Veh:	22.1	19.9	14.4	25.2	18.1	18.1	21.8	21.8	21.5	27.5	27.5	29.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	22.1	19.9	14.4	25.2	18.1	18.1	21.8	21.8	21.5	27.5	27.5	29.3
LOS by Move:	C+	B-	B	C	B-	B-	C+	C+	C+	C	C	C
HCM2kAvgQ:	2	8	2	1	3	3	1	1	1	5	5	5

Note: Queue reported is the number of cars per lane.

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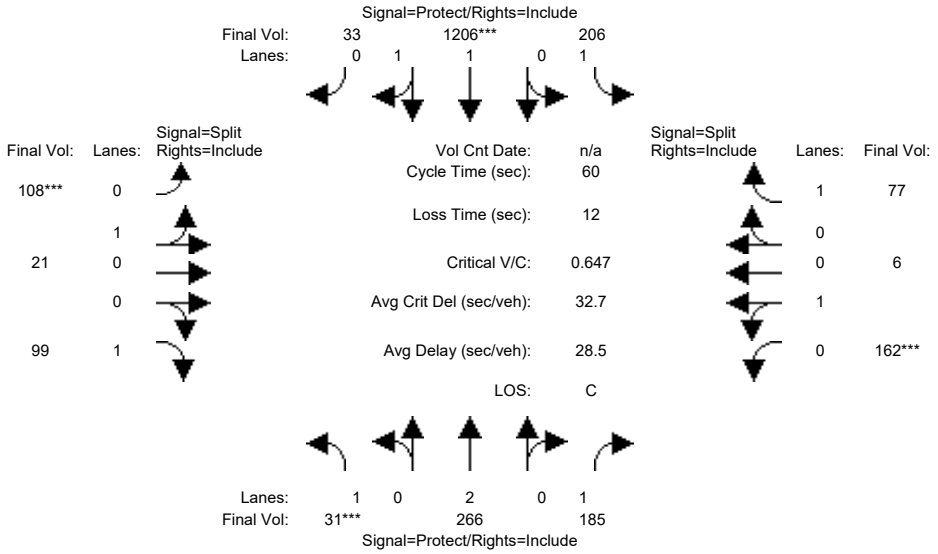
Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Bkgrd+Proj PM

Intersection #10: Moffett Blvd & Leong Dr



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	31	265	185	206	1205	33	108	21	99	162	6	77
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	31	265	185	206	1205	33	108	21	99	162	6	77
Added Vol:	0	1	0	0	1	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	31	266	185	206	1206	33	108	21	99	162	6	77
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	31	266	185	206	1206	33	108	21	99	162	6	77
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	31	266	185	206	1206	33	108	21	99	162	6	77
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	31	266	185	206	1206	33	108	21	99	162	6	77
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	0.97	0.95	0.95	0.95	0.92	0.95	0.95	0.92
Lanes:	1.00	2.00	1.00	1.00	1.95	0.05	0.84	0.16	1.00	0.96	0.04	1.00
Final Sat.:	1750	3800	1750	1750	3601	99	1507	293	1750	1736	64	1750
Capacity Analysis Module:												
Vol/Sat:	0.02	0.07	0.11	0.12	0.33	0.33	0.07	0.07	0.06	0.09	0.09	0.04
Crit Moves:	****				****		****			****		
Green Time:	7.0	16.4	16.4	11.6	21.0	21.0	10.0	10.0	10.0	10.0	10.0	10.0
Volume/Cap:	0.15	0.26	0.39	0.61	0.96	0.96	0.43	0.43	0.34	0.56	0.56	0.26
Delay/Veh:	24.2	17.2	18.2	25.4	34.9	34.9	23.4	23.4	22.8	25.4	25.4	22.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	24.2	17.2	18.2	25.4	34.9	34.9	23.4	23.4	22.8	25.4	25.4	22.3
LOS by Move:	C	B	B-	C	C-	C-	C	C	C+	C	C	C+
HCM2kAvgQ:	1	2	3	4	15	15	3	3	2	4	4	2

Note: Queue reported is the number of cars per lane.

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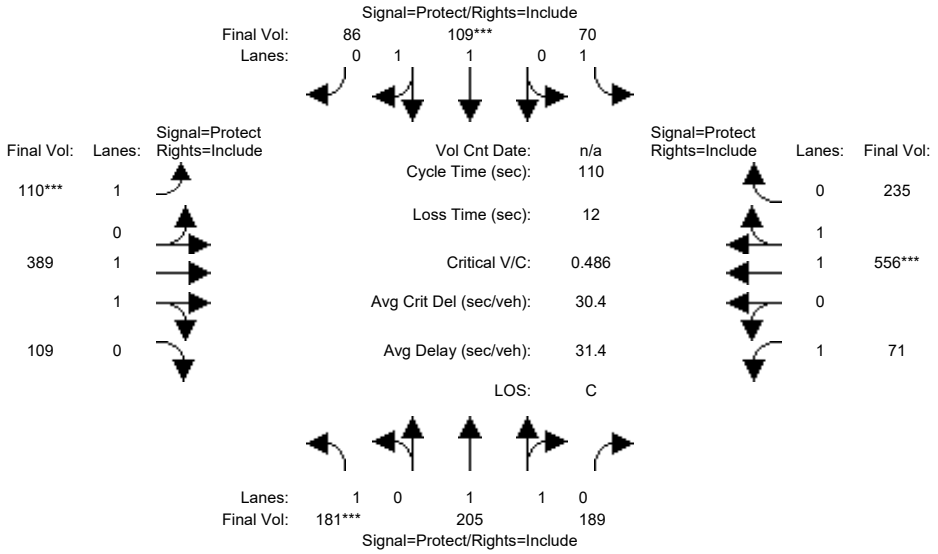
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background AM

Intersection #11: Whisman Rd & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	181	205	189	70	109	86	110	389	109	71	556	235
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	181	205	189	70	109	86	110	389	109	71	556	235
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	181	205	189	70	109	86	110	389	109	71	556	235
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	181	205	189	70	109	86	110	389	109	71	556	235
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	181	205	189	70	109	86	110	389	109	71	556	235
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	181	205	189	70	109	86	110	389	109	71	556	235
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.95	0.92	0.99	0.95	0.92	0.98	0.95	0.92	0.98	0.95
Lanes:	1.00	1.01	0.99	1.00	1.09	0.91	1.00	1.55	0.45	1.00	1.39	0.61
Final Sat.:	1750	1924	1774	1750	2067	1631	1750	2890	810	1750	2600	1099
Capacity Analysis Module:												
Vol/Sat:	0.10	0.11	0.11	0.04	0.05	0.05	0.06	0.13	0.13	0.04	0.21	0.21
Crit Moves:	****				****		****				****	
Green Time:	23.4	22.1	22.1	13.2	11.9	11.9	14.2	42.5	42.5	20.1	48.4	48.4
Volume/Cap:	0.49	0.53	0.53	0.33	0.49	0.49	0.49	0.35	0.35	0.22	0.49	0.49
Delay/Veh:	39.0	40.0	40.0	45.3	47.1	47.1	46.1	24.1	24.1	38.6	22.2	22.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	39.0	40.0	40.0	45.3	47.1	47.1	46.1	24.1	24.1	38.6	22.2	22.2
LOS by Move:	D	D	D	D	D	D	D	C	C	D+	C+	C+
HCM2kAvgQ:	6	7	7	3	4	4	4	6	6	2	10	10

Note: Queue reported is the number of cars per lane.

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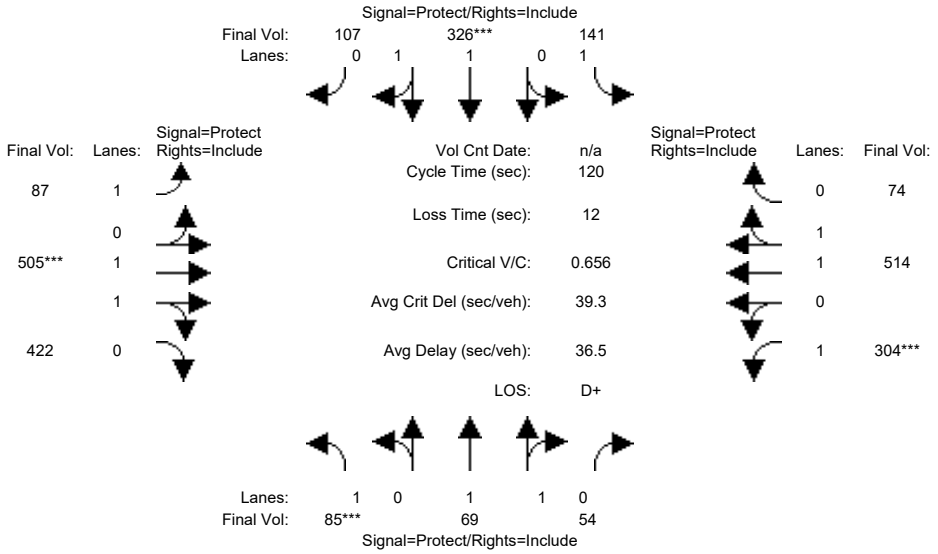
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background PM

Intersection #11: Whisman Rd & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	85	69	54	141	326	107	87	505	422	304	514	74
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	85	69	54	141	326	107	87	505	422	304	514	74
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	85	69	54	141	326	107	87	505	422	304	514	74
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	85	69	54	141	326	107	87	505	422	304	514	74
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	85	69	54	141	326	107	87	505	422	304	514	74
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	85	69	54	141	326	107	87	505	422	304	514	74
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.92	0.98	0.95	0.92	1.00	0.95	0.92	0.98	0.95
Lanes:	1.00	1.10	0.90	1.00	1.49	0.51	1.00	1.06	0.94	1.00	1.74	0.26
Final Sat.:	1750	2074	1623	1750	2785	914	1750	2014	1683	1750	3234	466
Capacity Analysis Module:												
Vol/Sat:	0.05	0.03	0.03	0.08	0.12	0.12	0.05	0.25	0.25	0.17	0.16	0.16
Crit Moves:	****				****			****		****		
Green Time:	8.9	15.4	15.4	14.9	21.4	21.4	20.9	45.9	45.9	31.8	56.8	56.8
Volume/Cap:	0.66	0.26	0.26	0.65	0.66	0.66	0.29	0.66	0.66	0.66	0.34	0.34
Delay/Veh:	65.6	47.4	47.4	56.8	48.3	48.3	43.6	31.7	31.7	42.6	19.9	19.9
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	65.6	47.4	47.4	56.8	48.3	48.3	43.6	31.7	31.7	42.6	19.9	19.9
LOS by Move:	E	D	D	E+	D	D	D	C	C	D	B-	B-
HCM2kAvgQ:	5	2	2	6	9	9	3	14	14	12	7	7

Note: Queue reported is the number of cars per lane.

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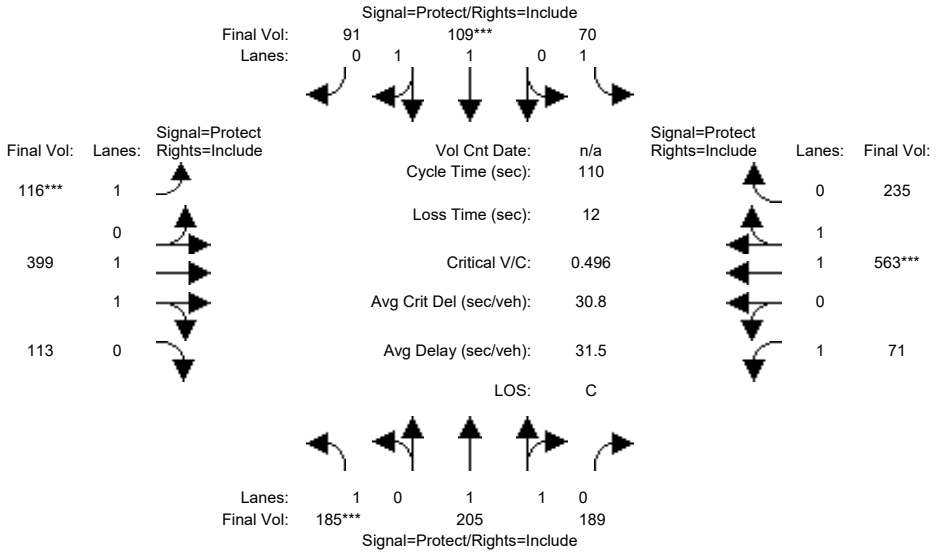
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Bkgrd+Proj AM

Intersection #11: Whisman Rd & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	181	205	189	70	109	86	110	389	109	71	556	235
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	181	205	189	70	109	86	110	389	109	71	556	235
Added Vol:	4	0	0	0	0	5	6	10	4	0	7	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	185	205	189	70	109	91	116	399	113	71	563	235
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	185	205	189	70	109	91	116	399	113	71	563	235
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	185	205	189	70	109	91	116	399	113	71	563	235
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	185	205	189	70	109	91	116	399	113	71	563	235
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.95	0.92	1.00	0.95	0.92	0.98	0.95	0.92	0.98	0.95
Lanes:	1.00	1.01	0.99	1.00	1.07	0.93	1.00	1.55	0.45	1.00	1.39	0.61
Final Sat.:	1750	1924	1774	1750	2015	1682	1750	2883	816	1750	2610	1089
Capacity Analysis Module:												
Vol/Sat:	0.11	0.11	0.11	0.04	0.05	0.05	0.07	0.14	0.14	0.04	0.22	0.22
Crit Moves:	****				****		****				****	
Green Time:	23.4	22.2	22.2	13.3	12.0	12.0	14.7	42.9	42.9	19.7	47.9	47.9
Volume/Cap:	0.50	0.53	0.53	0.33	0.50	0.50	0.50	0.36	0.36	0.23	0.50	0.50
Delay/Veh:	39.1	39.9	39.9	45.2	47.1	47.1	45.9	23.9	23.9	39.0	22.6	22.6
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	39.1	39.9	39.9	45.2	47.1	47.1	45.9	23.9	23.9	39.0	22.6	22.6
LOS by Move:	D	D	D	D	D	D	D	C	C	D+	C+	C+
HCM2kAvgQ:	6	7	7	3	4	4	4	6	6	2	10	10

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
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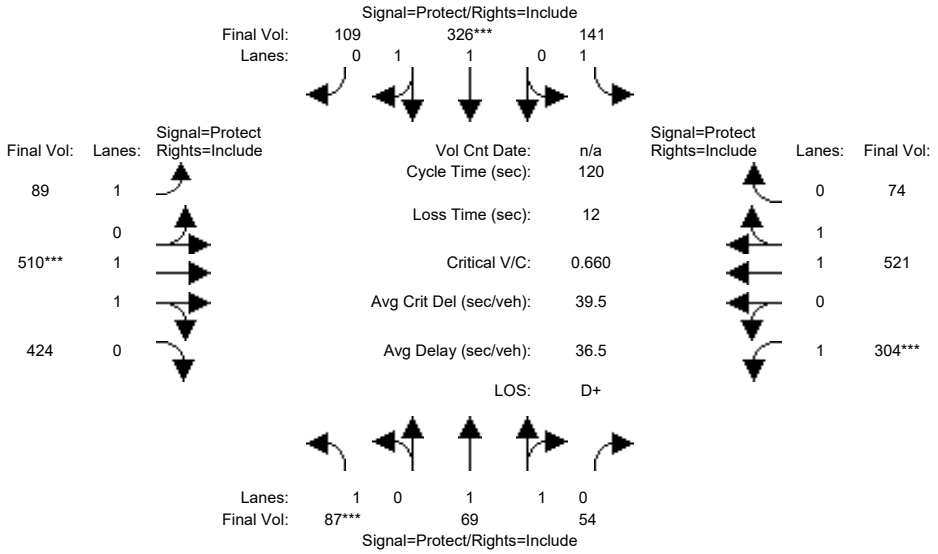
Intersection #11: Whisman Rd & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	85	69	54	141	326	107	87	505	422	304	514	74
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	85	69	54	141	326	107	87	505	422	304	514	74
Added Vol:	2	0	0	0	0	2	2	5	2	0	7	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	87	69	54	141	326	109	89	510	424	304	521	74
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	87	69	54	141	326	109	89	510	424	304	521	74
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	87	69	54	141	326	109	89	510	424	304	521	74
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	87	69	54	141	326	109	89	510	424	304	521	74
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.92	0.98	0.95	0.92	1.00	0.95	0.92	0.98	0.95
Lanes:	1.00	1.10	0.90	1.00	1.49	0.51	1.00	1.07	0.93	1.00	1.74	0.26
Final Sat.:	1750	2074	1623	1750	2772	927	1750	2019	1679	1750	3239	460
Capacity Analysis Module:												
Vol/Sat:	0.05	0.03	0.03	0.08	0.12	0.12	0.05	0.25	0.25	0.17	0.16	0.16
Crit Moves:	****				****			****		****		
Green Time:	9.0	15.5	15.5	15.0	21.4	21.4	20.6	46.0	46.0	31.6	56.9	56.9
Volume/Cap:	0.66	0.26	0.26	0.65	0.66	0.66	0.30	0.66	0.66	0.66	0.34	0.34
Delay/Veh:	65.7	47.4	47.4	56.6	48.4	48.4	43.9	31.7	31.7	42.9	19.9	19.9
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	65.7	47.4	47.4	56.6	48.4	48.4	43.9	31.7	31.7	42.9	19.9	19.9
LOS by Move:	E	D	D	E+	D	D	D	C	C	D	B-	B-
HCM2kAvgQ:	5	2	2	6	9	9	3	14	14	12	7	7

Note: Queue reported is the number of cars per lane.

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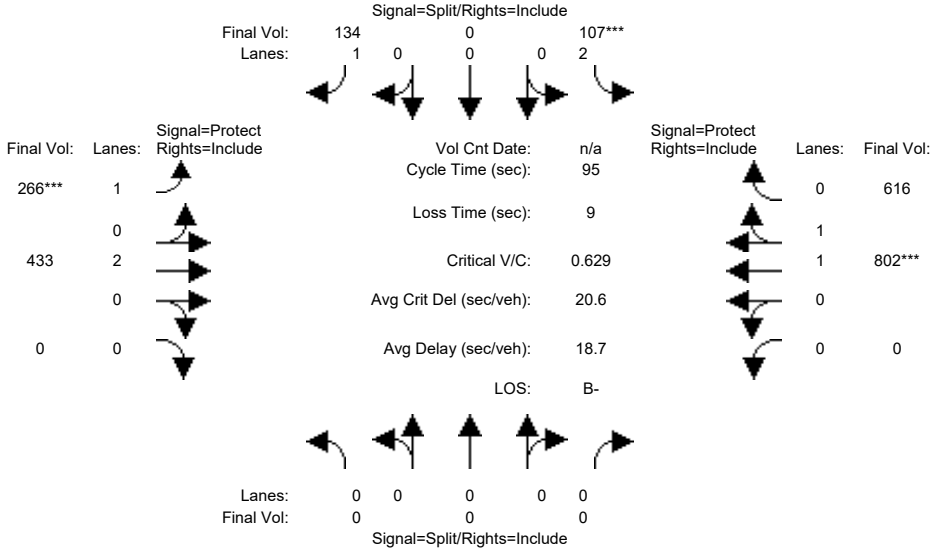
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background AM

Intersection #12: Ellis St & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	0	0	10	0	10	7	10	0	0	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	0	0	107	0	134	266	433	0	0	802	616
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	107	0	134	266	433	0	0	802	616
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	107	0	134	266	433	0	0	802	616
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	107	0	134	266	433	0	0	802	616
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	107	0	134	266	433	0	0	802	616
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	0	107	0	134	266	433	0	0	802	616
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.92	0.99	0.95
Lanes:	0.00	0.00	0.00	2.00	0.00	1.00	1.00	2.00	0.00	0.00	1.11	0.89
Final Sat.:	0	0	0	3150	0	1750	1750	3800	0	0	2091	1606
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.03	0.00	0.08	0.15	0.11	0.00	0.00	0.38	0.38
Crit Moves:				****			****				****	
Green Time:	0.0	0.0	0.0	11.6	0.0	11.6	21.1	74.4	0.0	0.0	53.3	53.3
Volume/Cap:	0.00	0.00	0.00	0.28	0.00	0.63	0.68	0.15	0.00	0.00	0.68	0.68
Delay/Veh:	0.0	0.0	0.0	38.3	0.0	45.6	38.8	2.5	0.0	0.0	15.8	15.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	0.0	0.0	38.3	0.0	45.6	38.8	2.5	0.0	0.0	15.8	15.8
LOS by Move:	A	A	A	D+	A	D	D+	A	A	A	B	B
HCM2kAvgQ:	0	0	0	2	0	5	9	2	0	0	16	16

Note: Queue reported is the number of cars per lane.

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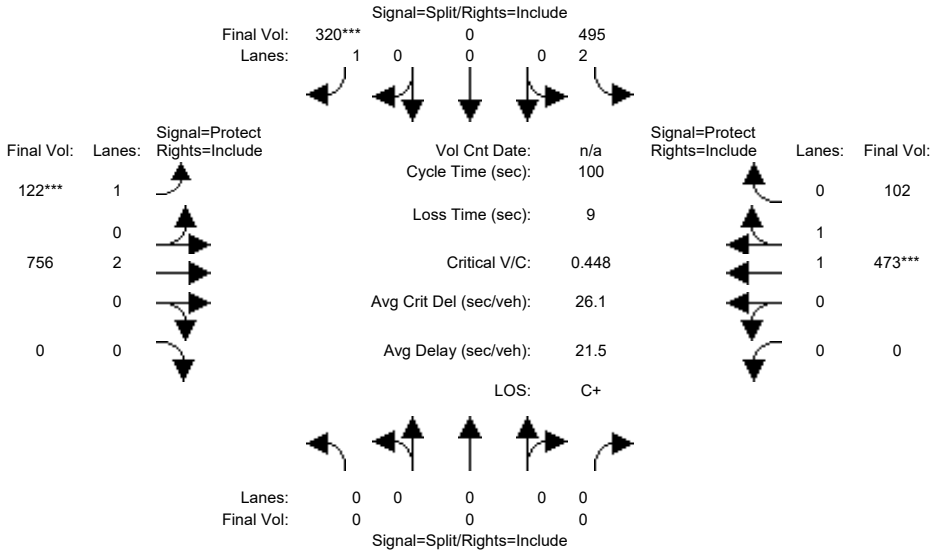
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background PM

Intersection #12: Ellis St & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	0	0	10	0	10	7	10	0	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	0	0	495	0	320	122	756	0	0	473	102
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	495	0	320	122	756	0	0	473	102
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	495	0	320	122	756	0	0	473	102
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	495	0	320	122	756	0	0	473	102
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	495	0	320	122	756	0	0	473	102
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	0	495	0	320	122	756	0	0	473	102
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.92	0.98	0.95
Lanes:	0.00	0.00	0.00	2.00	0.00	1.00	1.00	2.00	0.00	0.00	1.64	0.36
Final Sat.:	0	0	0	3150	0	1750	1750	3800	0	0	3043	656
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.16	0.00	0.18	0.07	0.20	0.00	0.00	0.16	0.16
Crit Moves:						****	****				****	
Green Time:	0.0	0.0	0.0	40.8	0.0	40.8	15.5	50.2	0.0	0.0	34.7	34.7
Volume/Cap:	0.00	0.00	0.00	0.39	0.00	0.45	0.45	0.40	0.00	0.00	0.45	0.45
Delay/Veh:	0.0	0.0	0.0	21.0	0.0	21.9	39.5	15.6	0.0	0.0	25.5	25.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	0.0	0.0	21.0	0.0	21.9	39.5	15.6	0.0	0.0	25.5	25.5
LOS by Move:	A	A	A	C+	A	C+	D	B	A	A	C	C
HCM2kAvgQ:	0	0	0	6	0	8	4	7	0	0	7	7

Note: Queue reported is the number of cars per lane.

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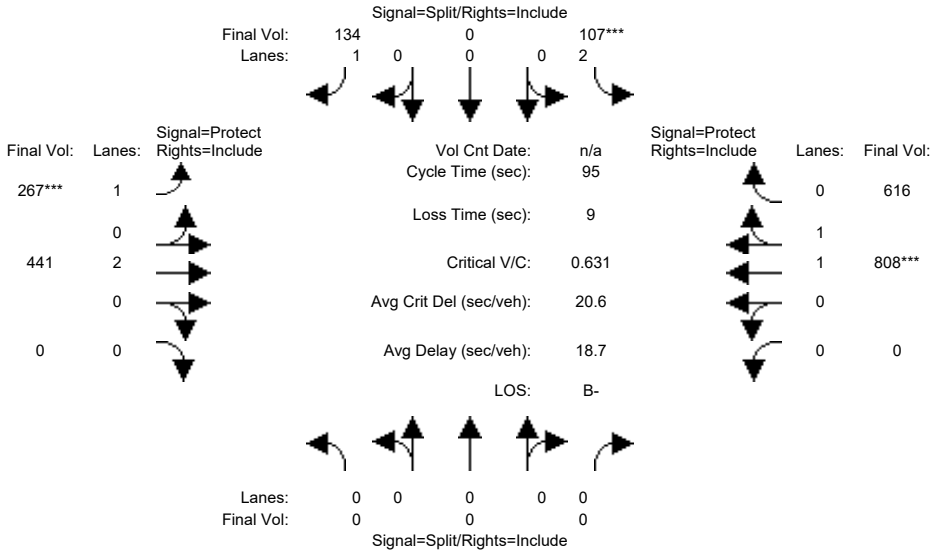
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Bkgrd+Proj AM

Intersection #12: Ellis St & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	0	0	0	10	0	10	7	10	0	0	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	0	0	107	0	134	266	433	0	0	802	616
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	107	0	134	266	433	0	0	802	616
Added Vol:	0	0	0	0	0	0	1	8	0	0	6	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	107	0	134	267	441	0	0	808	616
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	107	0	134	267	441	0	0	808	616
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	107	0	134	267	441	0	0	808	616
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	0	107	0	134	267	441	0	0	808	616
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.92	0.99	0.95
Lanes:	0.00	0.00	0.00	2.00	0.00	1.00	1.00	2.00	0.00	0.00	1.11	0.89
Final Sat.:	0	0	0	3150	0	1750	1750	3800	0	0	2098	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.03	0.00	0.08	0.15	0.12	0.00	0.00	0.39	0.39
Crit Moves:				****			****				****	
Green Time:	0.0	0.0	0.0	11.5	0.0	11.5	21.1	74.5	0.0	0.0	53.3	53.3
Volume/Cap:	0.00	0.00	0.00	0.28	0.00	0.63	0.69	0.15	0.00	0.00	0.69	0.69
Delay/Veh:	0.0	0.0	0.0	38.4	0.0	45.8	38.9	2.5	0.0	0.0	15.8	15.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	0.0	0.0	38.4	0.0	45.8	38.9	2.5	0.0	0.0	15.8	15.8
LOS by Move:	A	A	A	D+	A	D	D+	A	A	A	B	B
HCM2kAvgQ:	0	0	0	2	0	5	9	2	0	0	16	16

Note: Queue reported is the number of cars per lane.

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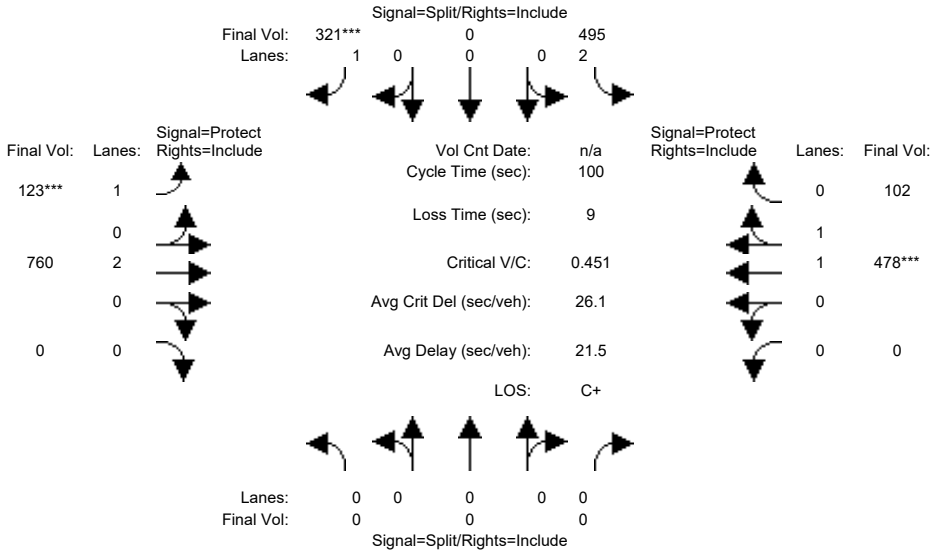
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Bkgrd+Proj PM

Intersection #12: Ellis St & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	0	0	10	0	10	7	10	0	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	0	0	495	0	320	122	756	0	0	473	102
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	495	0	320	122	756	0	0	473	102
Added Vol:	0	0	0	0	0	1	1	4	0	0	5	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	495	0	321	123	760	0	0	478	102
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	495	0	321	123	760	0	0	478	102
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	495	0	321	123	760	0	0	478	102
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	0	495	0	321	123	760	0	0	478	102
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.92	0.98	0.95
Lanes:	0.00	0.00	0.00	2.00	0.00	1.00	1.00	2.00	0.00	0.00	1.64	0.36
Final Sat.:	0	0	0	3150	0	1750	1750	3800	0	0	3049	651
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.16	0.00	0.18	0.07	0.20	0.00	0.00	0.16	0.16
Crit Moves:						****	****				****	
Green Time:	0.0	0.0	0.0	40.7	0.0	40.7	15.6	50.3	0.0	0.0	34.8	34.8
Volume/Cap:	0.00	0.00	0.00	0.39	0.00	0.45	0.45	0.40	0.00	0.00	0.45	0.45
Delay/Veh:	0.0	0.0	0.0	21.1	0.0	22.0	39.5	15.6	0.0	0.0	25.5	25.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	0.0	0.0	21.1	0.0	22.0	39.5	15.6	0.0	0.0	25.5	25.5
LOS by Move:	A	A	A	C+	A	C+	D	B	A	A	C	C
HCM2kAvgQ:	0	0	0	6	0	8	4	7	0	0	7	7

Note: Queue reported is the number of cars per lane.

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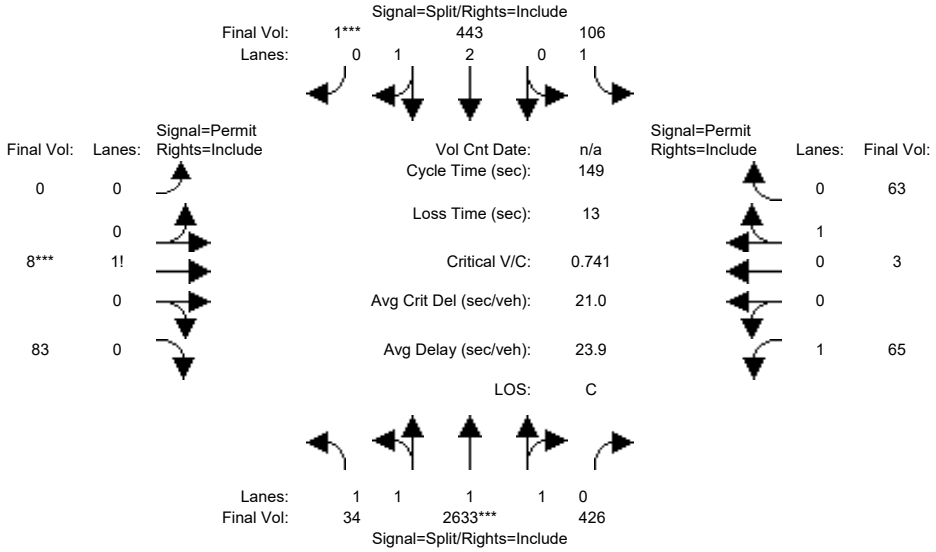
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative AM

Intersection #1: Shoreline Blvd. & Pear Ave



Street Name:	Shoreline Blvd						Pear Ave					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	34	2633	426	106	443	1	0	8	83	65	3	63
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	34	2633	426	106	443	1	0	8	83	65	3	63
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	34	2633	426	106	443	1	0	8	83	65	3	63
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	34	2633	426	106	443	1	0	8	83	65	3	63
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	34	2633	426	106	443	1	0	8	83	65	3	63
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	34	2633	426	106	443	1	0	8	83	65	3	63
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.92	0.98	0.95	0.92	0.95	0.95	0.92	0.95	0.95
Lanes:	1.00	2.57	0.43	1.00	2.99	0.01	0.00	0.09	0.91	1.00	0.05	0.95
Final Sat.:	1750	4819	780	1750	5587	13	0	158	1642	1750	82	1718
Capacity Analysis Module:												
Vol/Sat:	0.02	0.55	0.55	0.06	0.08	0.08	0.00	0.05	0.05	0.04	0.04	0.04
Crit Moves:		****				****		****				
Green Time:	109.9	110	109.9	15.9	15.9	15.9	0.0	10.2	10.2	10.2	10.2	10.2
Volume/Cap:	0.03	0.74	0.74	0.57	0.74	0.74	0.00	0.74	0.74	0.54	0.54	0.54
Delay/Veh:	5.2	12.0	12.0	67.2	69.4	69.4	0.0	89.3	89.3	72.3	71.8	71.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	5.2	12.0	12.0	67.2	69.4	69.4	0.0	89.3	89.3	72.3	71.8	71.8
LOS by Move:	A	B	B	E	E	E	A	F	F	E	E	E
HCM2kAvgQ:	0	25	25	6	8	8	0	6	6	4	4	4

Note: Queue reported is the number of cars per lane.

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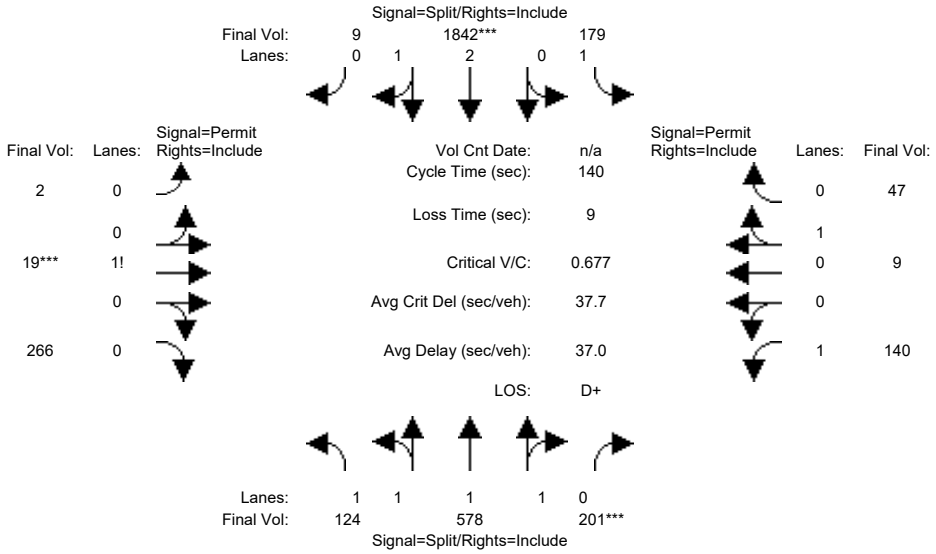
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative PM

Intersection #1: Shoreline Blvd. & Pear Ave



Street Name:	Shoreline Blvd						Pear Ave					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	124	578	201	179	1842	9	2	19	266	140	9	47
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	124	578	201	179	1842	9	2	19	266	140	9	47
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	124	578	201	179	1842	9	2	19	266	140	9	47
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	124	578	201	179	1842	9	2	19	266	140	9	47
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	124	578	201	179	1842	9	2	19	266	140	9	47
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	124	578	201	179	1842	9	2	19	266	140	9	47
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.92	0.98	0.95	0.92	0.92	0.92	0.92	0.95	0.95
Lanes:	1.00	2.20	0.80	1.00	2.98	0.02	0.01	0.06	0.93	1.00	0.16	0.84
Final Sat.:	1750	4153	1444	1750	5573	27	12	116	1622	1750	289	1511
Capacity Analysis Module:												
Vol/Sat:	0.07	0.14	0.14	0.10	0.33	0.33	0.16	0.16	0.16	0.08	0.03	0.03
Crit Moves:			****		****			****				
Green Time:	28.8	28.8	28.8	68.3	68.3	68.3	33.9	33.9	33.9	33.9	33.9	33.9
Volume/Cap:	0.34	0.68	0.68	0.21	0.68	0.68	0.68	0.68	0.68	0.33	0.13	0.13
Delay/Veh:	47.6	52.7	52.7	20.6	28.1	28.1	52.4	52.4	52.4	44.2	41.6	41.6
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	47.6	52.7	52.7	20.6	28.1	28.1	52.4	52.4	52.4	44.2	41.6	41.6
LOS by Move:	D	D-	D-	C+	C	C	D-	D-	D-	D	D	D
HCM2kAvgQ:	5	10	10	5	21	21	13	13	13	5	2	2

Note: Queue reported is the number of cars per lane.

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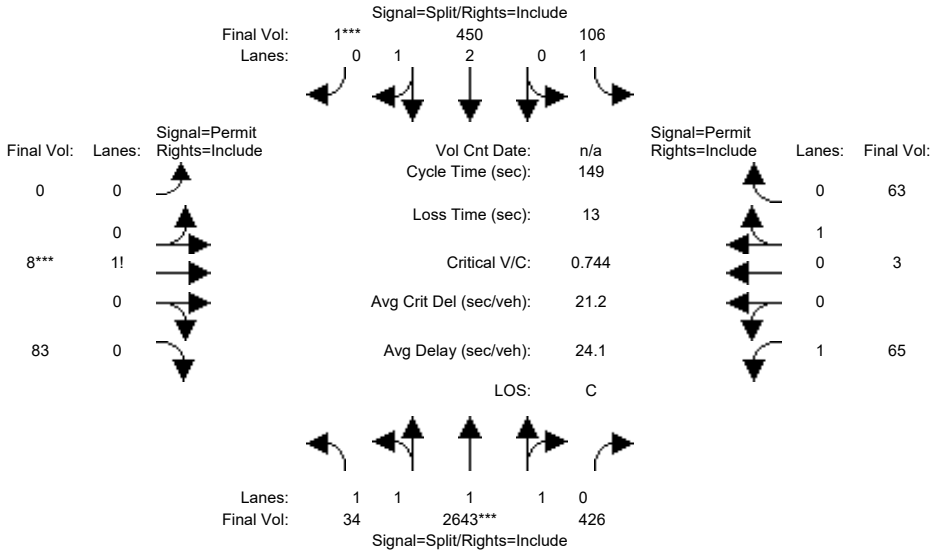
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumul+Proj AM

Intersection #1: Shoreline Blvd. & Pear Ave



Street Name:	Shoreline Blvd						Pear Ave					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	34	2633	426	106	443	1	0	8	83	65	3	63
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	34	2633	426	106	443	1	0	8	83	65	3	63
Added Vol:	0	10	0	0	7	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	34	2643	426	106	450	1	0	8	83	65	3	63
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	34	2643	426	106	450	1	0	8	83	65	3	63
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	34	2643	426	106	450	1	0	8	83	65	3	63
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	34	2643	426	106	450	1	0	8	83	65	3	63
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.92	0.98	0.95	0.92	0.95	0.95	0.92	0.95	0.95
Lanes:	1.00	2.57	0.43	1.00	2.99	0.01	0.00	0.09	0.91	1.00	0.05	0.95
Final Sat.:	1750	4822	777	1750	5588	12	0	158	1642	1750	82	1718
Capacity Analysis Module:												
Vol/Sat:	0.02	0.55	0.55	0.06	0.08	0.08	0.00	0.05	0.05	0.04	0.04	0.04
Crit Moves:		****				****		****				
Green Time:	109.8	110	109.8	16.1	16.1	16.1	0.0	10.1	10.1	10.1	10.1	10.1
Volume/Cap:	0.03	0.74	0.74	0.56	0.74	0.74	0.00	0.74	0.74	0.55	0.54	0.54
Delay/Veh:	5.3	12.2	12.2	66.8	69.4	69.4	0.0	89.9	89.9	72.5	72.0	72.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	5.3	12.2	12.2	66.8	69.4	69.4	0.0	89.9	89.9	72.5	72.0	72.0
LOS by Move:	A	B	B	E	E	E	A	F	F	E	E	E
HCM2kAvgQ:	0	25	25	6	8	8	0	6	6	4	4	4

Note: Queue reported is the number of cars per lane.

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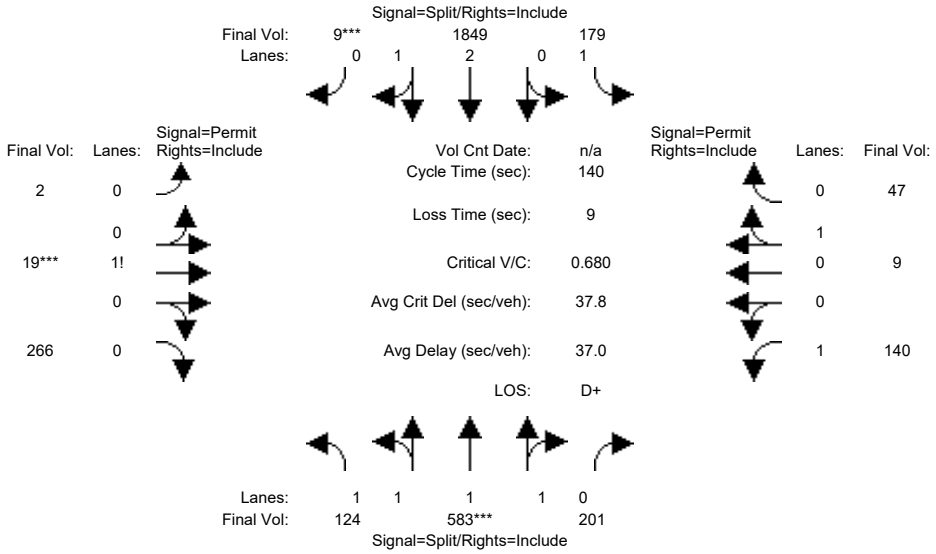
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumul+Proj PM

Intersection #1: Shoreline Blvd. & Pear Ave



Street Name:	Shoreline Blvd						Pear Ave					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	124	578	201	179	1842	9	2	19	266	140	9	47
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	124	578	201	179	1842	9	2	19	266	140	9	47
Added Vol:	0	5	0	0	7	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	124	583	201	179	1849	9	2	19	266	140	9	47
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	124	583	201	179	1849	9	2	19	266	140	9	47
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	124	583	201	179	1849	9	2	19	266	140	9	47
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	124	583	201	179	1849	9	2	19	266	140	9	47
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.92	0.98	0.95	0.92	0.92	0.92	0.92	0.95	0.95
Lanes:	1.00	2.20	0.80	1.00	2.98	0.02	0.01	0.06	0.93	1.00	0.16	0.84
Final Sat.:	1750	4162	1435	1750	5573	27	12	116	1622	1750	289	1511
Capacity Analysis Module:												
Vol/Sat:	0.07	0.14	0.14	0.10	0.33	0.33	0.16	0.16	0.16	0.08	0.03	0.03
Crit Moves:		****				****		****				
Green Time:	28.9	28.9	28.9	68.4	68.4	68.4	33.8	33.8	33.8	33.8	33.8	33.8
Volume/Cap:	0.34	0.68	0.68	0.21	0.68	0.68	0.68	0.68	0.68	0.33	0.13	0.13
Delay/Veh:	47.6	52.7	52.7	20.5	28.1	28.1	52.6	52.6	52.6	44.3	41.7	41.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	47.6	52.7	52.7	20.5	28.1	28.1	52.6	52.6	52.6	44.3	41.7	41.7
LOS by Move:	D	D-	D-	C+	C	C	D-	D-	D-	D	D	D
HCM2kAvgQ:	5	11	11	5	21	21	13	13	13	5	2	2

Note: Queue reported is the number of cars per lane.

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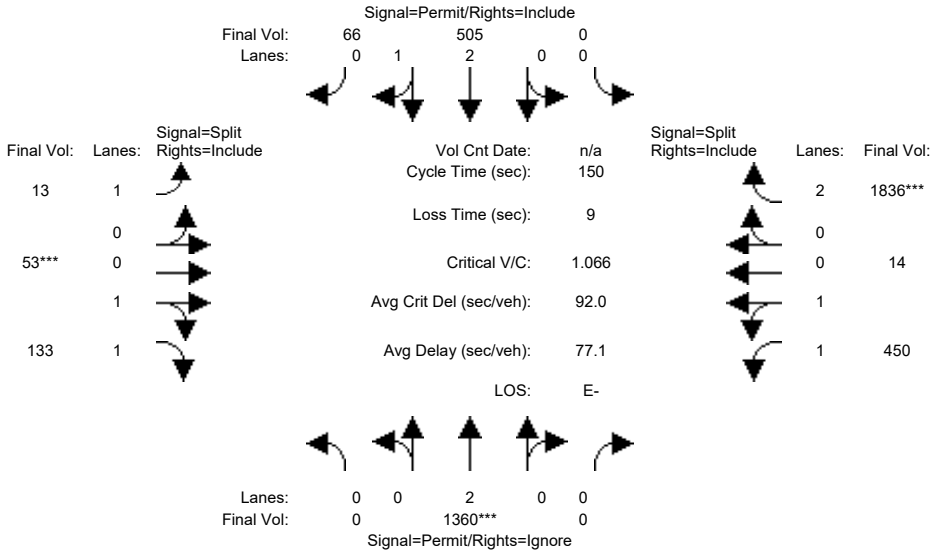
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative AM

Intersection #2: Shoreline Blvd. & US101 NB Off-ramp/La Avenida



Street Name:	Shoreline Boulevard						US101 NB Off-ramp/La Avenida Aven					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	0	10	0	0	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	1360	2	0	505	66	13	53	133	450	14	1836
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	1360	2	0	505	66	13	53	133	450	14	1836
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	1360	2	0	505	66	13	53	133	450	14	1836
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	1360	0	0	505	66	13	53	133	450	14	1836
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1360	0	0	505	66	13	53	133	450	14	1836
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	1360	0	0	505	66	13	53	133	450	14	1836
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.97	0.92	0.92	0.99	0.95	0.92	0.95	0.95	0.93	0.95	0.83
Lanes:	0.00	2.00	0.00	0.00	2.64	0.36	1.00	0.57	1.43	1.94	0.06	2.00
Final Sat.:	0	3700	0	0	4952	647	1750	1026	2574	3443	107	3150
Capacity Analysis Module:												
Vol/Sat:	0.00	0.37	0.00	0.00	0.10	0.10	0.01	0.05	0.05	0.13	0.13	0.58
Crit Moves:		****						****				****
Green Time:	0.0	50.7	0.0	0.0	50.7	50.7	10.0	10.0	10.0	80.3	80.3	80.3
Volume/Cap:	0.00	1.09	0.00	0.00	0.30	0.30	0.11	0.78	0.78	0.24	0.24	1.09
Delay/Veh:	0.0	103	0.0	0.0	36.7	36.7	66.2	83.5	83.5	18.7	18.7	85.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	103	0.0	0.0	36.7	36.7	66.2	83.5	83.5	18.7	18.7	85.0
LOS by Move:	A	F	A	A	D+	D+	E	F	F	B-	B-	F
HCM2kAvgQ:	0	43	0	0	6	6	1	6	6	6	6	65

Note: Queue reported is the number of cars per lane.

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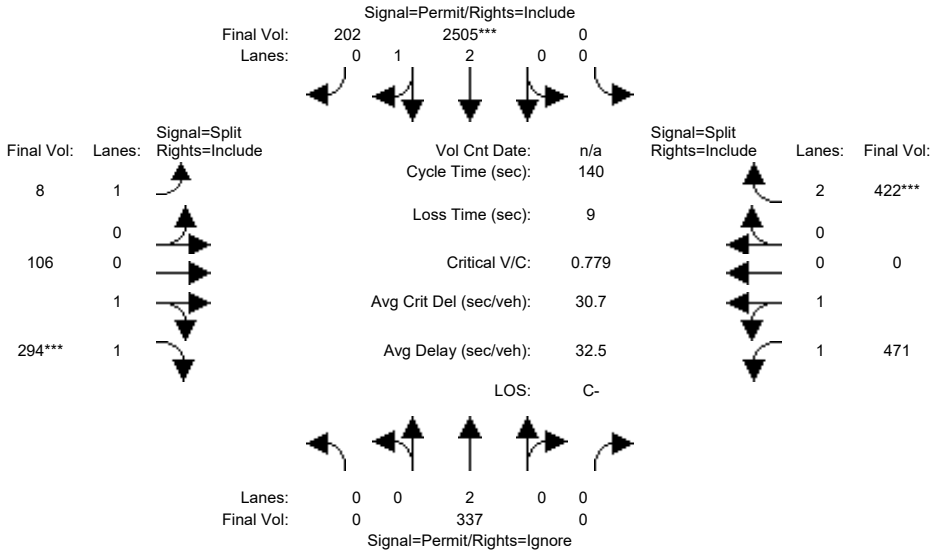
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative PM

Intersection #2: Shoreline Blvd. & US101 NB Off-ramp/La Avenida



Street Name:	Shoreline Boulevard						US101 NB Off-ramp/La Avenida Aven					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	0	10	0	0	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	337	11	0	2505	202	8	106	294	471	0	422
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	337	11	0	2505	202	8	106	294	471	0	422
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	337	11	0	2505	202	8	106	294	471	0	422
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	337	0	0	2505	202	8	106	294	471	0	422
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	337	0	0	2505	202	8	106	294	471	0	422
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	337	0	0	2505	202	8	106	294	471	0	422
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.97	0.92	0.92	0.99	0.95	0.92	0.95	0.95	0.93	1.00	0.83
Lanes:	0.00	2.00	0.00	0.00	2.77	0.23	1.00	0.53	1.47	2.00	0.00	2.00
Final Sat.:	0	3700	0	0	5182	418	1750	954	2646	3550	0	3150
Capacity Analysis Module:												
Vol/Sat:	0.00	0.09	0.00	0.00	0.48	0.48	0.00	0.11	0.11	0.13	0.00	0.13
Crit Moves:					****				****			****
Green Time:	0.0	86.9	0.0	0.0	86.9	86.9	20.0	20.0	20.0	24.1	0.0	24.1
Volume/Cap:	0.00	0.15	0.00	0.00	0.78	0.78	0.03	0.78	0.78	0.77	0.00	0.78
Delay/Veh:	0.0	11.1	0.0	0.0	20.6	20.6	51.7	65.3	65.3	61.3	0.0	62.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	11.1	0.0	0.0	20.6	20.6	51.7	65.3	65.3	61.3	0.0	62.5
LOS by Move:	A	B+	A	A	C+	C+	D-	E	E	E	A	E
HCM2kAvgQ:	0	3	0	0	28	28	0	11	11	12	0	12

Note: Queue reported is the number of cars per lane.

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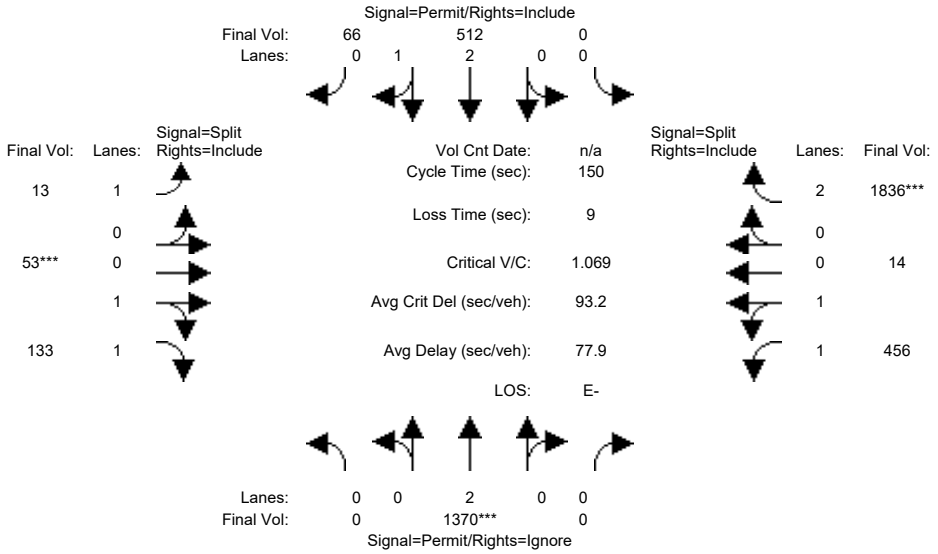
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumul+Proj AM

Intersection #2: Shoreline Blvd. & US101 NB Off-ramp/La Avenida



Street Name:	Shoreline Boulevard						US101 NB Off-ramp/La Avenida Aven					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	0	10	0	0	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	1360	2	0	505	66	13	53	133	450	14	1836
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	1360	2	0	505	66	13	53	133	450	14	1836
Added Vol:	0	10	0	0	7	0	0	0	0	6	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	1370	2	0	512	66	13	53	133	456	14	1836
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	1370	0	0	512	66	13	53	133	456	14	1836
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1370	0	0	512	66	13	53	133	456	14	1836
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	1370	0	0	512	66	13	53	133	456	14	1836
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.97	0.92	0.92	0.99	0.95	0.92	0.95	0.95	0.93	0.95	0.83
Lanes:	0.00	2.00	0.00	0.00	2.64	0.36	1.00	0.57	1.43	1.94	0.06	2.00
Final Sat.:	0	3700	0	0	4960	639	1750	1026	2574	3444	106	3150
Capacity Analysis Module:												
Vol/Sat:	0.00	0.37	0.00	0.00	0.10	0.10	0.01	0.05	0.05	0.13	0.13	0.58
Crit Moves:		****						****				****
Green Time:	0.0	50.9	0.0	0.0	50.9	50.9	10.0	10.0	10.0	80.1	80.1	80.1
Volume/Cap:	0.00	1.09	0.00	0.00	0.30	0.30	0.11	0.78	0.78	0.25	0.25	1.09
Delay/Veh:	0.0	104	0.0	0.0	36.6	36.6	66.2	83.5	83.5	18.8	18.8	86.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	104	0.0	0.0	36.6	36.6	66.2	83.5	83.5	18.8	18.8	86.3
LOS by Move:	A	F	A	A	D+	D+	E	F	F	B-	B-	F
HCM2kAvgQ:	0	43	0	0	6	6	1	6	6	6	6	65

Note: Queue reported is the number of cars per lane.

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1001 N Shoreline Blvd Residential Development
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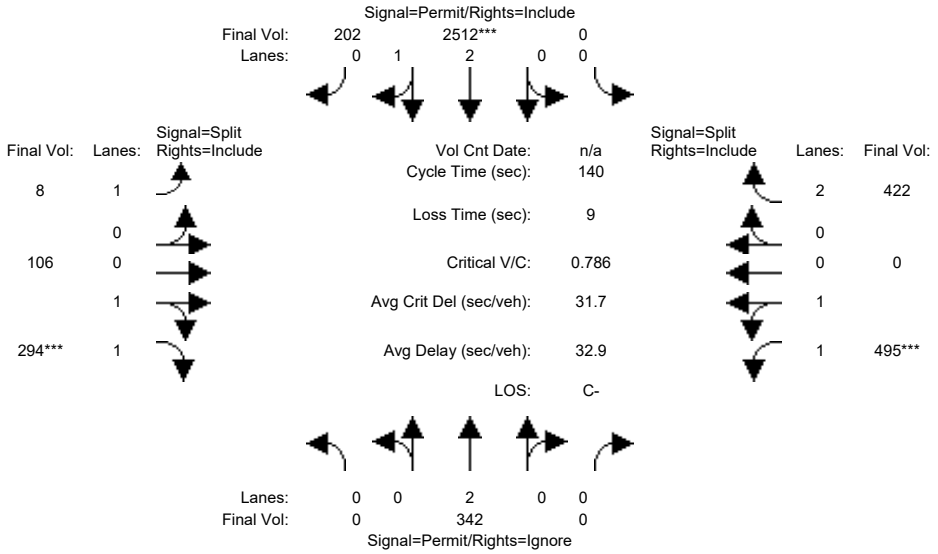
Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumul+Proj PM

Intersection #2: Shoreline Blvd. & US101 NB Off-ramp/La Avenida



Street Name:	Shoreline Boulevard						US101 NB Off-ramp/La Avenida Aven					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	0	10	0	0	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	337	11	0	2505	202	8	106	294	471	0	422
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	337	11	0	2505	202	8	106	294	471	0	422
Added Vol:	0	5	0	0	7	0	0	0	0	24	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	342	11	0	2512	202	8	106	294	495	0	422
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	342	0	0	2512	202	8	106	294	495	0	422
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	342	0	0	2512	202	8	106	294	495	0	422
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	342	0	0	2512	202	8	106	294	495	0	422
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.97	0.92	0.92	0.99	0.95	0.92	0.95	0.95	0.93	1.00	0.83
Lanes:	0.00	2.00	0.00	0.00	2.77	0.23	1.00	0.53	1.47	2.00	0.00	2.00
Final Sat.:	0	3700	0	0	5183	417	1750	954	2646	3550	0	3150
Capacity Analysis Module:												
Vol/Sat:	0.00	0.09	0.00	0.00	0.48	0.48	0.00	0.11	0.11	0.14	0.00	0.13
Crit Moves:					****				****	****		
Green Time:	0.0	86.4	0.0	0.0	86.4	86.4	19.8	19.8	19.8	24.8	0.0	24.8
Volume/Cap:	0.00	0.15	0.00	0.00	0.79	0.79	0.03	0.79	0.79	0.79	0.00	0.75
Delay/Veh:	0.0	11.4	0.0	0.0	21.2	21.2	51.9	66.0	66.0	61.5	0.0	60.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	11.4	0.0	0.0	21.2	21.2	51.9	66.0	66.0	61.5	0.0	60.5
LOS by Move:	A	B+	A	A	C+	C+	D-	E	E	E	A	E
HCM2kAvgQ:	0	3	0	0	29	29	0	11	11	13	0	12

Note: Queue reported is the number of cars per lane.

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Hexagon Transportation Consultants, Inc.

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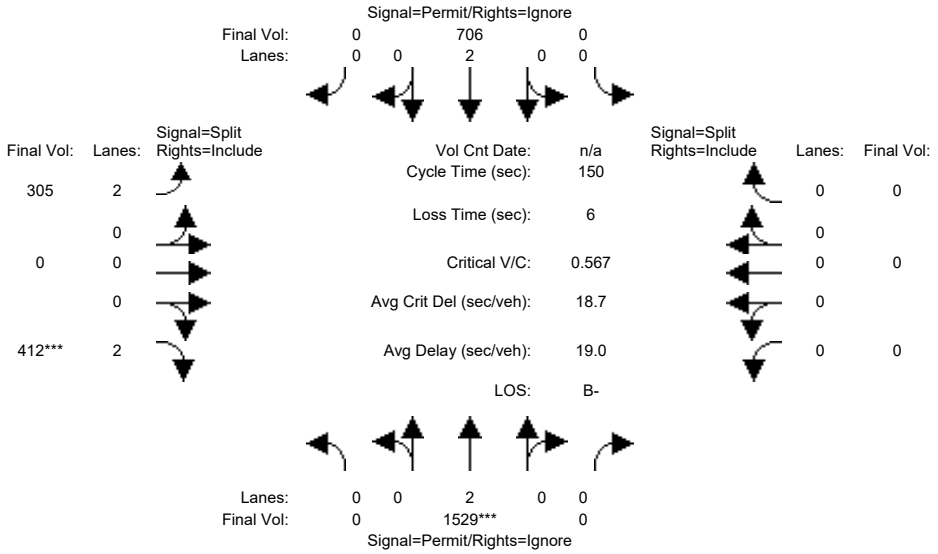
Cumulative AM

Intersection #3: Shoreline Blvd. & US101/SR 85 SB Ramps



Street Name:	Shoreline Boulevard						US 101/SR85 SB Ramps					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	1529	292	0	706	396	305	0	412	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	1529	292	0	706	396	305	0	412	0	0	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	1529	292	0	706	396	305	0	412	0	0	0
User Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	1529	0	0	706	0	305	0	412	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1529	0	0	706	0	305	0	412	0	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	1529	0	0	706	0	305	0	412	0	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.97	0.92	0.92	0.97	0.92	0.83	1.00	0.83	0.92	1.00	0.92
Lanes:	0.00	2.00	0.00	0.00	2.00	0.00	2.00	0.00	2.00	0.00	0.00	0.00
Final Sat.:	0	3700	0	0	3700	0	3150	0	3150	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.00	0.41	0.00	0.00	0.19	0.00	0.10	0.00	0.13	0.00	0.00	0.00
Crit Moves:		****							****			
Green Time:	0.0	109	0.0	0.0	109	0.0	34.6	0.0	34.6	0.0	0.0	0.0
Volume/Cap:	0.00	0.57	0.00	0.00	0.26	0.00	0.42	0.00	0.57	0.00	0.00	0.00
Delay/Veh:	0.0	9.7	0.0	0.0	6.8	0.0	49.5	0.0	52.1	0.0	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	9.7	0.0	0.0	6.8	0.0	49.5	0.0	52.1	0.0	0.0	0.0
LOS by Move:	A	A	A	A	A	A	D	A	D-	A	A	A
HCM2kAvgQ:	0	16	0	0	5	0	7	0	10	0	0	0

Note: Queue reported is the number of cars per lane.

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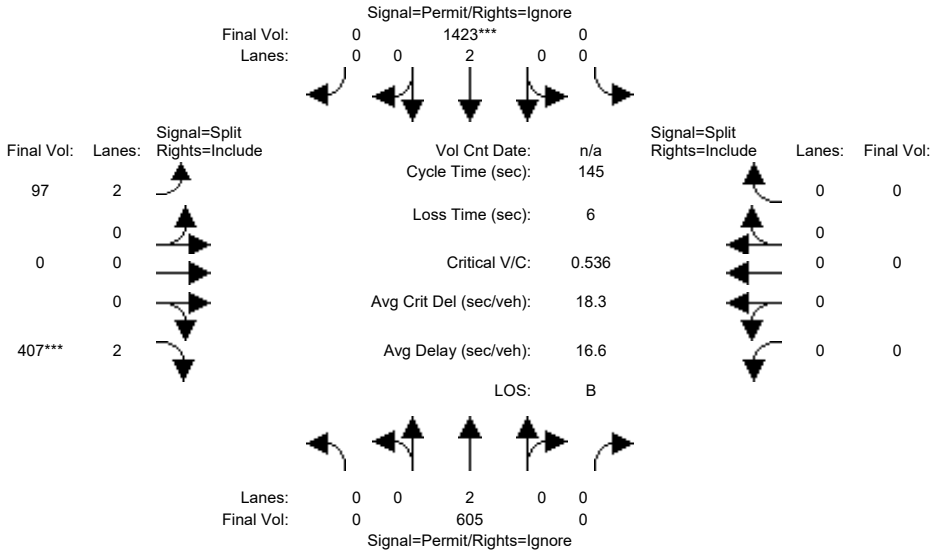
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative PM

Intersection #3: Shoreline Blvd. & US101/SR 85 SB Ramps



Street Name:	Shoreline Boulevard						US 101/SR85 SB Ramps					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	605	251	0	1423	1850	97	0	407	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	605	251	0	1423	1850	97	0	407	0	0	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	605	251	0	1423	1850	97	0	407	0	0	0
User Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	605	0	0	1423	0	97	0	407	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	605	0	0	1423	0	97	0	407	0	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	605	0	0	1423	0	97	0	407	0	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.97	0.92	0.92	0.97	0.92	0.83	1.00	0.83	0.92	1.00	0.92
Lanes:	0.00	2.00	0.00	0.00	2.00	0.00	2.00	0.00	2.00	0.00	0.00	0.00
Final Sat.:	0	3700	0	0	3700	0	3150	0	3150	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.00	0.16	0.00	0.00	0.38	0.00	0.03	0.00	0.13	0.00	0.00	0.00
Crit Moves:					****				****			
Green Time:	0.0	104	0.0	0.0	104	0.0	35.0	0.0	35.0	0.0	0.0	0.0
Volume/Cap:	0.00	0.23	0.00	0.00	0.54	0.00	0.13	0.00	0.54	0.00	0.00	0.00
Delay/Veh:	0.0	7.0	0.0	0.0	9.6	0.0	43.2	0.0	48.7	0.0	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	7.0	0.0	0.0	9.6	0.0	43.2	0.0	48.7	0.0	0.0	0.0
LOS by Move:	A	A	A	A	A	A	D	A	D	A	A	A
HCM2kAvgQ:	0	5	0	0	15	0	2	0	10	0	0	0

Note: Queue reported is the number of cars per lane.

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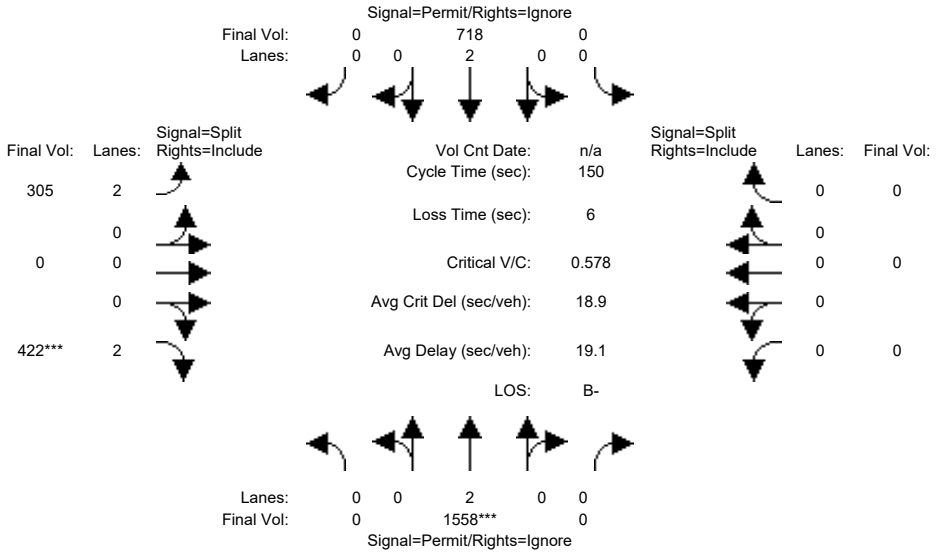
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumul+Proj AM

Intersection #3: Shoreline Blvd. & US101/SR 85 SB Ramps



Street Name:	Shoreline Boulevard						US 101/SR85 SB Ramps					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	1529	292	0	706	396	305	0	412	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	1529	292	0	706	396	305	0	412	0	0	0
Added Vol:	0	29	0	0	12	0	0	0	10	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	1558	292	0	718	396	305	0	422	0	0	0
User Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	1558	0	0	718	0	305	0	422	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1558	0	0	718	0	305	0	422	0	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	1558	0	0	718	0	305	0	422	0	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.97	0.92	0.92	0.97	0.92	0.83	1.00	0.83	0.92	1.00	0.92
Lanes:	0.00	2.00	0.00	0.00	2.00	0.00	2.00	0.00	2.00	0.00	0.00	0.00
Final Sat.:	0	3700	0	0	3700	0	3150	0	3150	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.00	0.42	0.00	0.00	0.19	0.00	0.10	0.00	0.13	0.00	0.00	0.00
Crit Moves:		****							****			
Green Time:	0.0	109	0.0	0.0	109	0.0	34.8	0.0	34.8	0.0	0.0	0.0
Volume/Cap:	0.00	0.58	0.00	0.00	0.27	0.00	0.42	0.00	0.58	0.00	0.00	0.00
Delay/Veh:	0.0	9.9	0.0	0.0	6.9	0.0	49.4	0.0	52.3	0.0	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	9.9	0.0	0.0	6.9	0.0	49.4	0.0	52.3	0.0	0.0	0.0
LOS by Move:	A	A	A	A	A	A	D	A	D-	A	A	A
HCM2kAvgQ:	0	17	0	0	6	0	7	0	11	0	0	0

Note: Queue reported is the number of cars per lane.

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Mountain View, CA
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Level Of Service Computation Report
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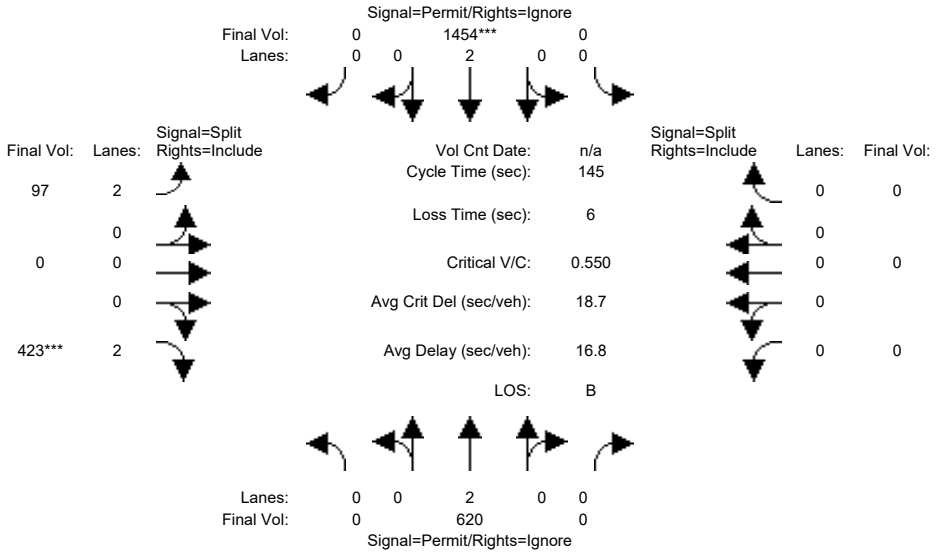
Cumul+Proj PM

Intersection #3: Shoreline Blvd. & US101/SR 85 SB Ramps



Street Name:	Shoreline Boulevard						US 101/SR85 SB Ramps					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L - T - R			L - T - R			L - T - R			L - T - R		
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	605	251	0	1423	1850	97	0	407	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	605	251	0	1423	1850	97	0	407	0	0	0
Added Vol:	0	15	0	0	31	0	0	0	16	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	620	251	0	1454	1850	97	0	423	0	0	0
User Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	620	0	0	1454	0	97	0	423	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	620	0	0	1454	0	97	0	423	0	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	620	0	0	1454	0	97	0	423	0	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.97	0.92	0.92	0.97	0.92	0.83	1.00	0.83	0.92	1.00	0.92
Lanes:	0.00	2.00	0.00	0.00	2.00	0.00	2.00	0.00	2.00	0.00	0.00	0.00
Final Sat.:	0	3700	0	0	3700	0	3150	0	3150	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.00	0.17	0.00	0.00	0.39	0.00	0.03	0.00	0.13	0.00	0.00	0.00
Crit Moves:					****				****			
Green Time:	0.0	104	0.0	0.0	104	0.0	35.4	0.0	35.4	0.0	0.0	0.0
Volume/Cap:	0.00	0.23	0.00	0.00	0.55	0.00	0.13	0.00	0.55	0.00	0.00	0.00
Delay/Veh:	0.0	7.1	0.0	0.0	10.0	0.0	42.8	0.0	48.7	0.0	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	7.1	0.0	0.0	10.0	0.0	42.8	0.0	48.7	0.0	0.0	0.0
LOS by Move:	A	A	A	A	A	A	D	A	D	A	A	A
HCM2kAvgQ:	0	5	0	0	15	0	2	0	10	0	0	0

Note: Queue reported is the number of cars per lane.

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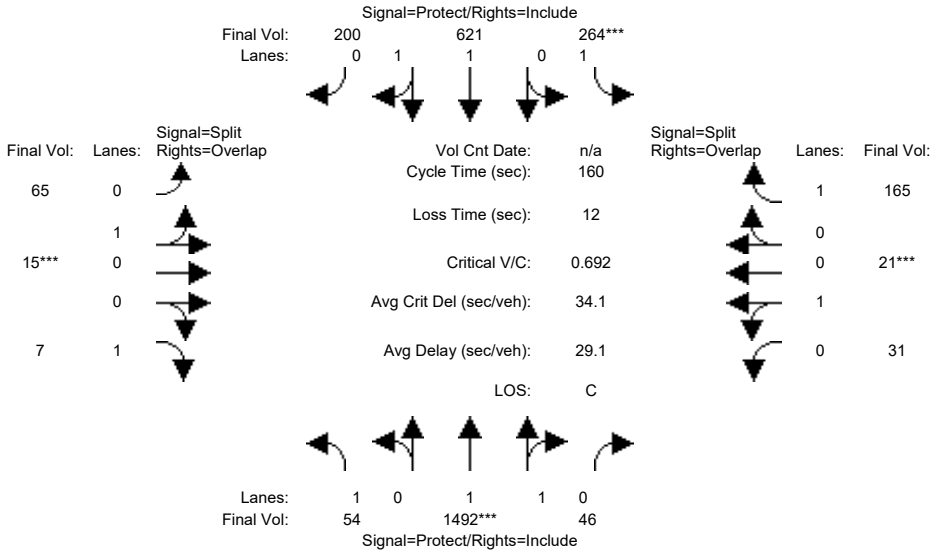
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative AM

Intersection #4: Shoreline Blvd & Terra Bella Ave



Street Name:	Shoreline Blvd						Terra Bella Ave					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	54	1492	46	264	621	200	65	15	7	31	21	165
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	54	1492	46	264	621	200	65	15	7	31	21	165
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	54	1492	46	264	621	200	65	15	7	31	21	165
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	54	1492	46	264	621	200	65	15	7	31	21	165
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	54	1492	46	264	621	200	65	15	7	31	21	165
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	54	1492	46	264	621	200	65	15	7	31	21	165
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.97	0.95	0.92	0.98	0.95	0.95	0.95	0.92	0.95	0.95	0.92
Lanes:	1.00	1.94	0.06	1.00	1.50	0.50	0.81	0.19	1.00	0.60	0.40	1.00
Final Sat.:	1750	3589	111	1750	2798	901	1462	337	1750	1073	727	1750
Capacity Analysis Module:												
Vol/Sat:	0.03	0.42	0.42	0.15	0.22	0.22	0.04	0.04	0.00	0.03	0.03	0.09
Crit Moves:		****		****				****			****	
Green Time:	21.1	93.9	93.9	34.1	107	106.9	10.0	10.0	31.1	10.0	10.0	44.1
Volume/Cap:	0.23	0.71	0.71	0.71	0.33	0.33	0.71	0.71	0.02	0.46	0.46	0.34
Delay/Veh:	62.8	24.5	24.5	64.5	11.4	11.4	92.2	92.2	52.1	75.4	75.4	46.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	62.8	24.5	24.5	64.5	11.4	11.4	92.2	92.2	52.1	75.4	75.4	46.8
LOS by Move:	E	C	C	E	B+	B+	F	F	D-	E-	E-	D
HCM2kAvgQ:	2	26	26	14	8	8	5	5	0	3	3	7

Note: Queue reported is the number of cars per lane.

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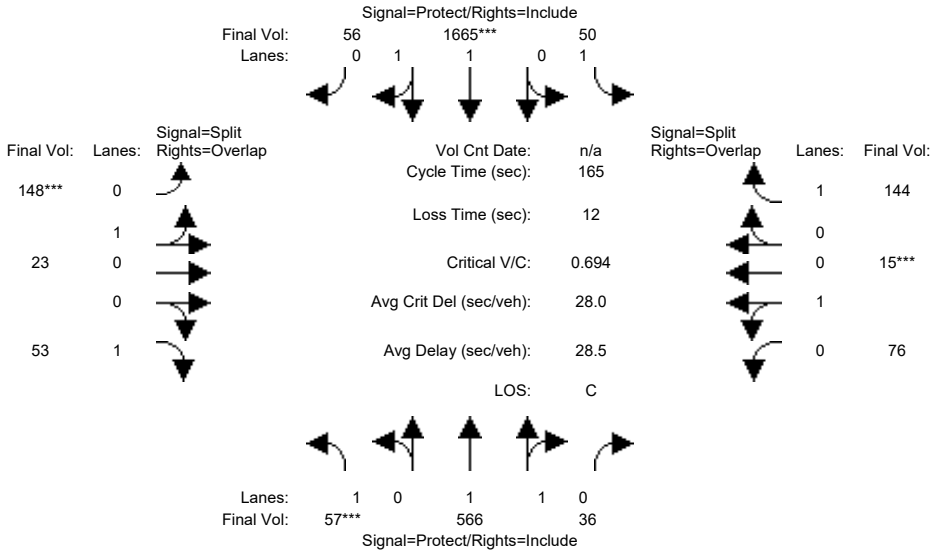
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative PM

Intersection #4: Shoreline Blvd & Terra Bella Ave



Street Name:	Shoreline Blvd						Terra Bella Ave					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	57	566	36	50	1665	56	148	23	53	76	15	144
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	57	566	36	50	1665	56	148	23	53	76	15	144
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	57	566	36	50	1665	56	148	23	53	76	15	144
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	57	566	36	50	1665	56	148	23	53	76	15	144
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	57	566	36	50	1665	56	148	23	53	76	15	144
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	57	566	36	50	1665	56	148	23	53	76	15	144
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	0.97	0.95	0.95	0.95	0.92	0.95	0.95	0.92
Lanes:	1.00	1.88	0.12	1.00	1.93	0.07	0.87	0.13	1.00	0.84	0.16	1.00
Final Sat.:	1750	3479	221	1750	3580	120	1558	242	1750	1503	297	1750
Capacity Analysis Module:												
Vol/Sat:	0.03	0.16	0.16	0.03	0.47	0.47	0.10	0.10	0.03	0.05	0.05	0.08
Crit Moves:	****				****		****				****	
Green Time:	7.7	93.9	93.9	24.5	111	110.6	22.6	22.6	30.3	12.0	12.0	36.5
Volume/Cap:	0.69	0.29	0.29	0.19	0.69	0.69	0.69	0.69	0.16	0.69	0.69	0.37
Delay/Veh:	100.1	18.4	18.4	62.0	17.6	17.6	76.2	76.2	56.9	89.6	89.6	55.1
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	100.1	18.4	18.4	62.0	17.6	17.6	76.2	76.2	56.9	89.6	89.6	55.1
LOS by Move:	F	B-	B-	E	B	B	E-	E-	E+	F	F	E+
HCM2kAvgQ:	3	7	7	2	27	27	10	10	2	6	6	7

Note: Queue reported is the number of cars per lane.

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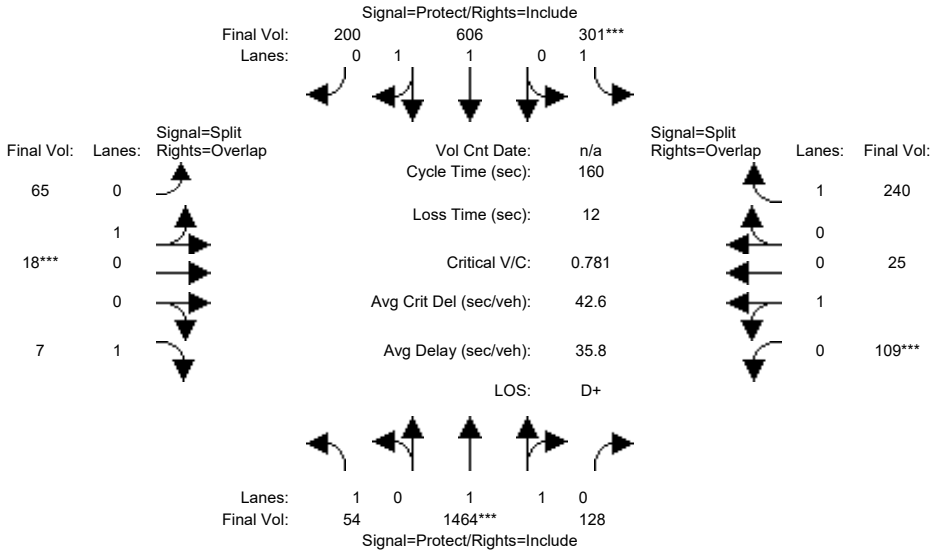
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumul+Proj AM

Intersection #4: Shoreline Blvd & Terra Bella Ave



Street Name:	Shoreline Blvd						Terra Bella Ave					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	54	1492	46	264	621	200	65	15	7	31	21	165
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	54	1492	46	264	621	200	65	15	7	31	21	165
Added Vol:	0	0	54	22	0	0	0	3	0	63	4	47
Retail Pass:	0	-28	28	15	-15	0	0	0	0	15	0	28
Initial Fut:	54	1464	128	301	606	200	65	18	7	109	25	240
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	54	1464	128	301	606	200	65	18	7	109	25	240
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	54	1464	128	301	606	200	65	18	7	109	25	240
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	54	1464	128	301	606	200	65	18	7	109	25	240
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	0.98	0.95	0.95	0.95	0.92	0.95	0.95	0.92
Lanes:	1.00	1.83	0.17	1.00	1.49	0.51	0.78	0.22	1.00	0.81	0.19	1.00
Final Sat.:	1750	3402	297	1750	2781	918	1410	390	1750	1464	336	1750
Capacity Analysis Module:												
Vol/Sat:	0.03	0.43	0.43	0.17	0.22	0.22	0.05	0.05	0.00	0.07	0.07	0.14
Crit Moves:		****		****				****		****		
Green Time:	20.5	87.7	87.7	35.1	102	102.3	10.0	10.0	30.5	15.2	15.2	50.3
Volume/Cap:	0.24	0.78	0.78	0.78	0.34	0.34	0.74	0.74	0.02	0.78	0.78	0.44
Delay/Veh:	63.3	30.7	30.7	69.1	13.4	13.4	96.1	96.1	52.6	91.6	91.6	44.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	63.3	30.7	30.7	69.1	13.4	13.4	96.1	96.1	52.6	91.6	91.6	44.2
LOS by Move:	E	C	C	E	B	B	F	F	D-	F	F	D
HCM2kAvgQ:	2	30	30	17	9	9	6	6	0	9	9	10

Note: Queue reported is the number of cars per lane.

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1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
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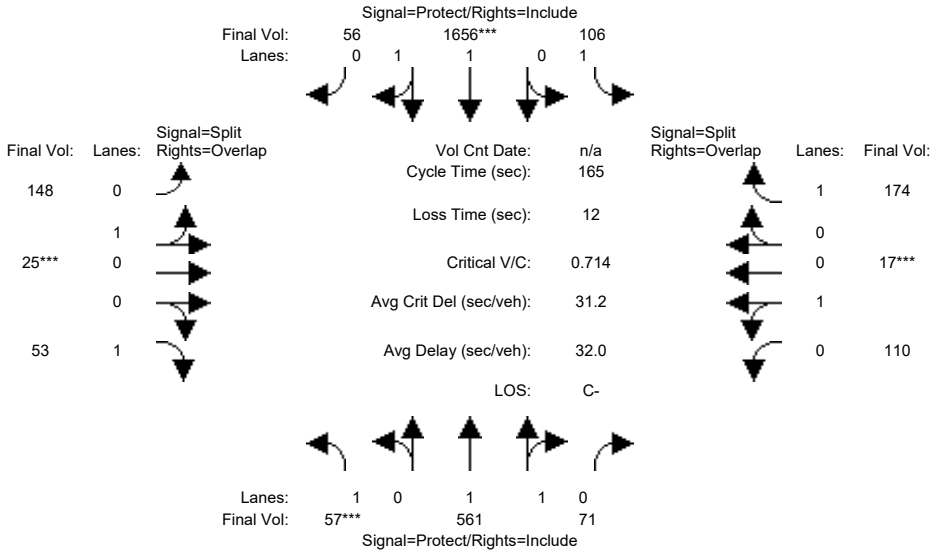
Intersection #4: Shoreline Blvd & Terra Bella Ave



Street Name:	Shoreline Blvd						Terra Bella Ave					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	57	566	36	50	1665	56	148	23	53	76	15	144
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	57	566	36	50	1665	56	148	23	53	76	15	144
Added Vol:	0	0	30	47	0	0	0	2	0	25	2	25
Retail Pass:	0	-5	5	9	-9	0	0	0	0	9	0	5
Initial Fut:	57	561	71	106	1656	56	148	25	53	110	17	174
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	57	561	71	106	1656	56	148	25	53	110	17	174
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	57	561	71	106	1656	56	148	25	53	110	17	174
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	57	561	71	106	1656	56	148	25	53	110	17	174
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	0.97	0.95	0.95	0.95	0.92	0.95	0.95	0.92
Lanes:	1.00	1.77	0.23	1.00	1.93	0.07	0.86	0.14	1.00	0.87	0.13	1.00
Final Sat.:	1750	3284	416	1750	3579	121	1540	260	1750	1559	241	1750
Capacity Analysis Module:												
Vol/Sat:	0.03	0.17	0.17	0.06	0.46	0.46	0.10	0.10	0.03	0.07	0.07	0.10
Crit Moves:	****				****			****			****	
Green Time:	7.5	84.5	84.5	30.0	107	106.9	22.2	22.2	29.7	16.3	16.3	46.3
Volume/Cap:	0.71	0.33	0.33	0.33	0.71	0.71	0.71	0.71	0.17	0.71	0.71	0.35
Delay/Veh:	103.8	23.8	23.8	59.4	20.0	20.0	78.0	78.0	57.4	84.9	84.9	47.9
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	103.8	23.8	23.8	59.4	20.0	20.0	78.0	78.0	57.4	84.9	84.9	47.9
LOS by Move:	F	C	C	E+	C+	C+	E-	E-	E+	F	F	D
HCM2kAvgQ:	3	9	9	5	29	29	10	10	2	8	8	7

Note: Queue reported is the number of cars per lane.

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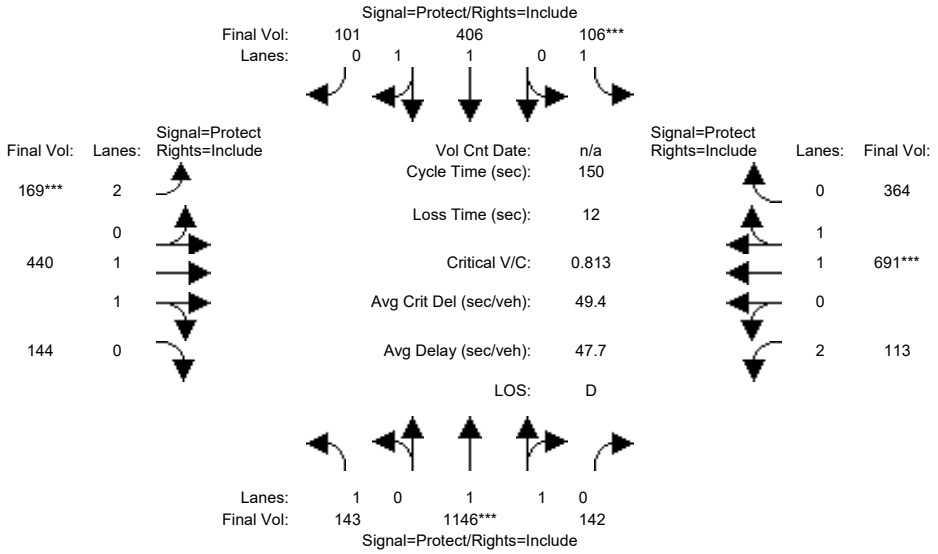
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative AM

Intersection #5: Shoreline Blvd. & Middlefield Rd.



Street Name:	Shoreline Boulevard						Middlefield Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	143	1146	142	106	406	101	169	440	144	113	691	364
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	143	1146	142	106	406	101	169	440	144	113	691	364
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	143	1146	142	106	406	101	169	440	144	113	691	364
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	143	1146	142	106	406	101	169	440	144	113	691	364
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	143	1146	142	106	406	101	169	440	144	113	691	364
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	143	1146	142	106	406	101	169	440	144	113	691	364
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	0.98	0.95	0.83	0.98	0.95	0.83	0.99	0.95
Lanes:	1.00	1.77	0.23	1.00	1.59	0.41	2.00	1.49	0.51	2.00	1.29	0.71
Final Sat.:	1750	3292	408	1750	2962	737	3150	2787	912	3150	2422	1276
Capacity Analysis Module:												
Vol/Sat:	0.08	0.35	0.35	0.06	0.14	0.14	0.05	0.16	0.16	0.04	0.29	0.29
Crit Moves:		****			****			****			****	
Green Time:	28.2	64.3	64.3	11.2	47.3	47.3	9.9	48.3	48.3	14.3	52.7	52.7
Volume/Cap:	0.43	0.81	0.81	0.81	0.43	0.43	0.81	0.49	0.49	0.38	0.81	0.81
Delay/Veh:	54.8	40.9	40.9	99.1	41.0	41.0	90.2	41.3	41.3	64.5	48.2	48.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	54.8	40.9	40.9	99.1	41.0	41.0	90.2	41.3	41.3	64.5	48.2	48.2
LOS by Move:	D-	D	D	F	D	D	F	D	D	E	D	D
HCM2kAvgQ:	6	28	28	6	9	9	7	11	11	3	24	24

Note: Queue reported is the number of cars per lane.

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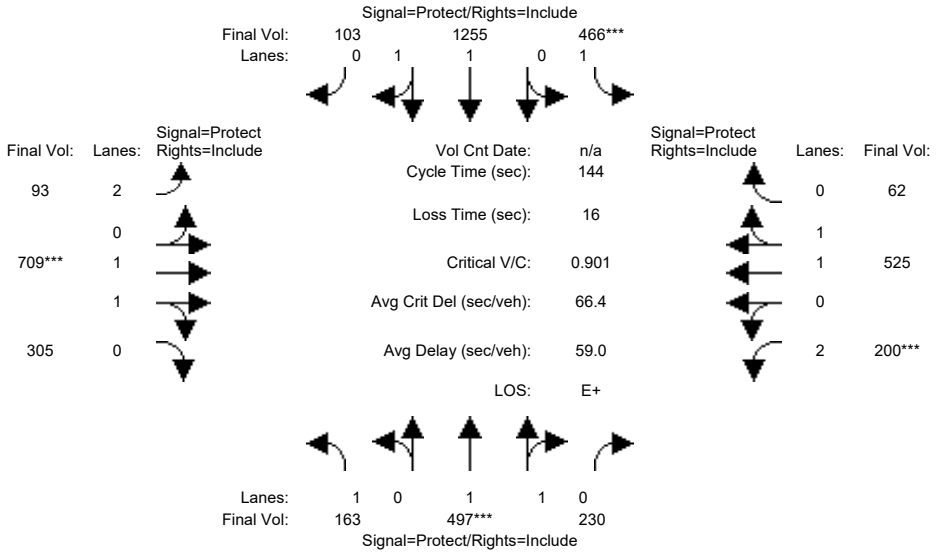
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative PM

Intersection #5: Shoreline Blvd. & Middlefield Rd.



Street Name:	Shoreline Boulevard						Middlefield Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	163	497	230	466	1255	103	93	709	305	200	525	62
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	163	497	230	466	1255	103	93	709	305	200	525	62
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	163	497	230	466	1255	103	93	709	305	200	525	62
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	163	497	230	466	1255	103	93	709	305	200	525	62
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	163	497	230	466	1255	103	93	709	305	200	525	62
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	163	497	230	466	1255	103	93	709	305	200	525	62
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.92	0.98	0.95	0.83	0.99	0.95	0.83	0.98	0.95
Lanes:	1.00	1.35	0.65	1.00	1.84	0.16	2.00	1.38	0.62	2.00	1.78	0.22
Final Sat.:	1750	2529	1170	1750	3419	281	3150	2586	1113	3150	3309	391
Capacity Analysis Module:												
Vol/Sat:	0.09	0.20	0.20	0.27	0.37	0.37	0.03	0.27	0.27	0.06	0.16	0.16
Crit Moves:		****		****				****		****		
Green Time:	15.0	31.4	31.4	42.6	59.0	59.0	12.7	43.8	43.8	10.2	41.3	41.3
Volume/Cap:	0.90	0.90	0.90	0.90	0.90	0.90	0.34	0.90	0.90	0.90	0.55	0.55
Delay/Veh:	102.4	67.9	67.9	67.4	46.9	46.9	62.4	57.9	57.9	101.2	44.1	44.1
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	102.4	67.9	67.9	67.4	46.9	46.9	62.4	57.9	57.9	101.2	44.1	44.1
LOS by Move:	F	E	E	E	D	D	E	E+	E+	F	D	D
HCM2kAvgQ:	11	19	19	22	29	29	3	25	25	8	11	11

Note: Queue reported is the number of cars per lane.

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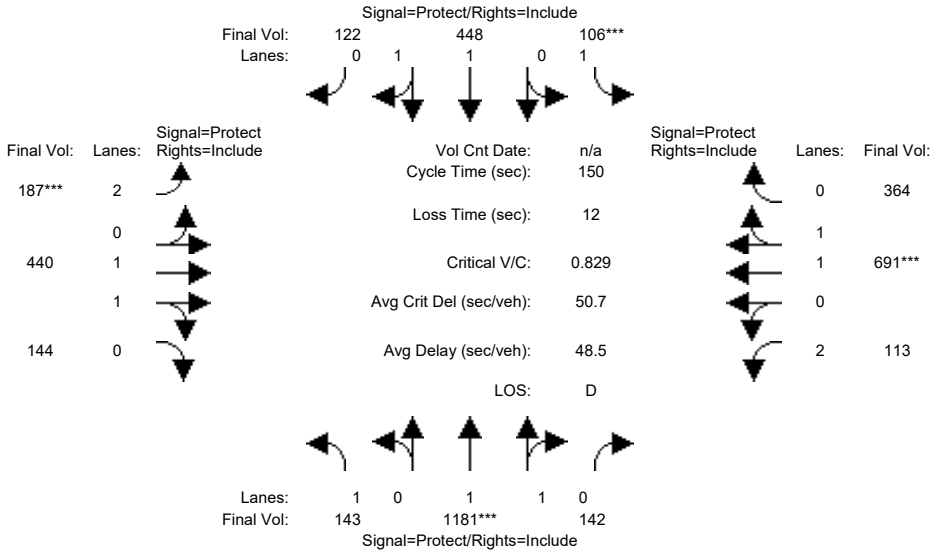
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumul+Proj AM

Intersection #5: Shoreline Blvd. & Middlefield Rd.



Street Name:	Shoreline Boulevard						Middlefield Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	143	1146	142	106	406	101	169	440	144	113	691	364
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	143	1146	142	106	406	101	169	440	144	113	691	364
Added Vol:	0	35	0	0	42	21	18	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	143	1181	142	106	448	122	187	440	144	113	691	364
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	143	1181	142	106	448	122	187	440	144	113	691	364
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	143	1181	142	106	448	122	187	440	144	113	691	364
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	143	1181	142	106	448	122	187	440	144	113	691	364
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	0.98	0.95	0.83	0.98	0.95	0.83	0.99	0.95
Lanes:	1.00	1.78	0.22	1.00	1.56	0.44	2.00	1.49	0.51	2.00	1.29	0.71
Final Sat.:	1750	3303	397	1750	2907	792	3150	2787	912	3150	2422	1276
Capacity Analysis Module:												
Vol/Sat:	0.08	0.36	0.36	0.06	0.15	0.15	0.06	0.16	0.16	0.04	0.29	0.29
Crit Moves:		****			****			****			****	
Green Time:	26.2	64.7	64.7	11.0	49.4	49.4	10.7	48.1	48.1	14.2	51.6	51.6
Volume/Cap:	0.47	0.83	0.83	0.83	0.47	0.47	0.83	0.49	0.49	0.38	0.83	0.83
Delay/Veh:	56.8	41.5	41.5	102.9	40.1	40.1	90.6	41.4	41.4	64.5	49.8	49.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	56.8	41.5	41.5	102.9	40.1	40.1	90.6	41.4	41.4	64.5	49.8	49.8
LOS by Move:	E+	D	D	F	D	D	F	D	D	E	D	D
HCM2kAvgQ:	7	29	29	6	10	10	7	11	11	3	25	25

Note: Queue reported is the number of cars per lane.

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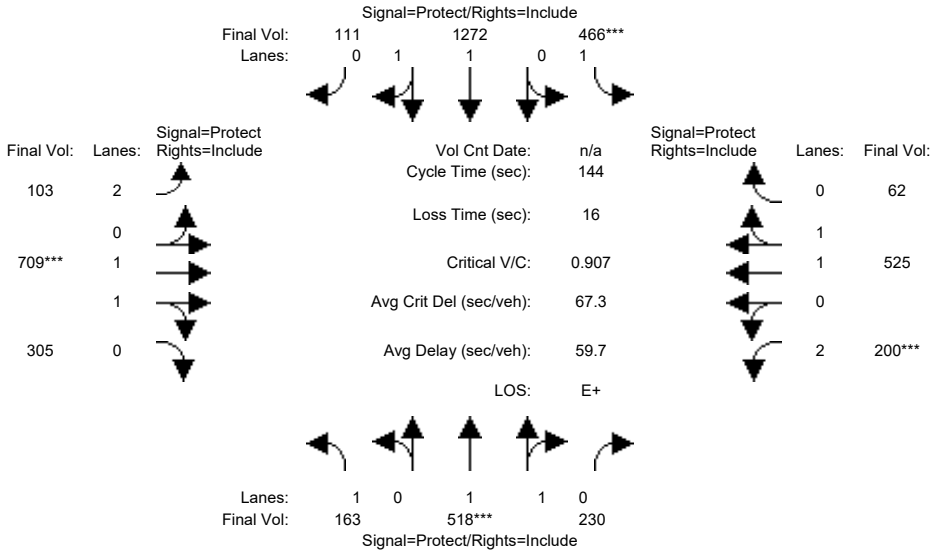
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumul+Proj PM

Intersection #5: Shoreline Blvd. & Middlefield Rd.



Street Name:	Shoreline Boulevard						Middlefield Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L - T - R			L - T - R			L - T - R			L - T - R		
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	163	497	230	466	1255	103	93	709	305	200	525	62
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	163	497	230	466	1255	103	93	709	305	200	525	62
Added Vol:	0	21	0	0	17	8	10	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	163	518	230	466	1272	111	103	709	305	200	525	62
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	163	518	230	466	1272	111	103	709	305	200	525	62
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	163	518	230	466	1272	111	103	709	305	200	525	62
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	163	518	230	466	1272	111	103	709	305	200	525	62
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.92	0.98	0.95	0.83	0.99	0.95	0.83	0.98	0.95
Lanes:	1.00	1.37	0.63	1.00	1.84	0.16	2.00	1.38	0.62	2.00	1.78	0.22
Final Sat.:	1750	2561	1137	1750	3403	297	3150	2586	1113	3150	3309	391
Capacity Analysis Module:												
Vol/Sat:	0.09	0.20	0.20	0.27	0.37	0.37	0.03	0.27	0.27	0.06	0.16	0.16
Crit Moves:		****		****				****		****		
Green Time:	14.8	32.1	32.1	42.3	59.6	59.6	12.6	43.5	43.5	10.1	41.0	41.0
Volume/Cap:	0.90	0.91	0.91	0.91	0.90	0.90	0.37	0.91	0.91	0.91	0.56	0.56
Delay/Veh:	104.7	68.1	68.1	68.7	47.5	47.5	62.9	58.9	58.9	102.8	44.4	44.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	104.7	68.1	68.1	68.7	47.5	47.5	62.9	58.9	58.9	102.8	44.4	44.4
LOS by Move:	F	E	E	E	D	D	E	E+	E+	F	D	D
HCM2kAvgQ:	11	20	20	22	30	30	3	25	25	8	11	11

Note: Queue reported is the number of cars per lane.

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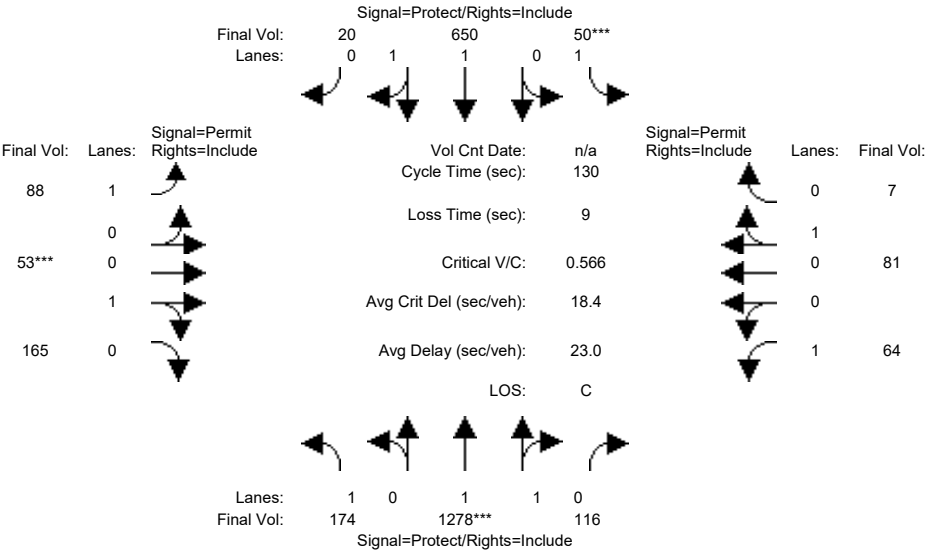
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative AM

Intersection #6: Shoreline Blvd. & Montecitio Ave.



Street Name:	Shorelline Blvd.						Montecitio Ave.					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	174	1278	116	50	650	20	88	53	165	64	81	7
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	174	1278	116	50	650	20	88	53	165	64	81	7
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	174	1278	116	50	650	20	88	53	165	64	81	7
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	174	1278	116	50	650	20	88	53	165	64	81	7
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	174	1278	116	50	650	20	88	53	165	64	81	7
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	174	1278	116	50	650	20	88	53	165	64	81	7
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	0.97	0.95	0.92	0.95	0.95	0.92	0.95	0.95
Lanes:	1.00	1.83	0.17	1.00	1.94	0.06	1.00	0.24	0.76	1.00	0.92	0.08
Final Sat.:	1750	3392	308	1750	3589	110	1750	438	1362	1750	1657	143
Capacity Analysis Module:												
Vol/Sat:	0.10	0.38	0.38	0.03	0.18	0.18	0.05	0.12	0.12	0.04	0.05	0.05
Crit Moves:		****		****				****				
Green Time:	33.1	86.3	86.3	7.0	60.2	60.2	27.7	27.7	27.7	27.7	27.7	27.7
Volume/Cap:	0.39	0.57	0.57	0.53	0.39	0.39	0.24	0.57	0.57	0.17	0.23	0.23
Delay/Veh:	40.7	12.1	12.1	65.6	23.0	23.0	42.7	47.8	47.8	42.0	42.6	42.6
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	40.7	12.1	12.1	65.6	23.0	23.0	42.7	47.8	47.8	42.0	42.6	42.6
LOS by Move:	D	B	B	E	C	C	D	D	D	D	D	D
HCM2kAvgQ:	6	15	15	3	9	9	3	9	9	2	3	3

Note: Queue reported is the number of cars per lane.

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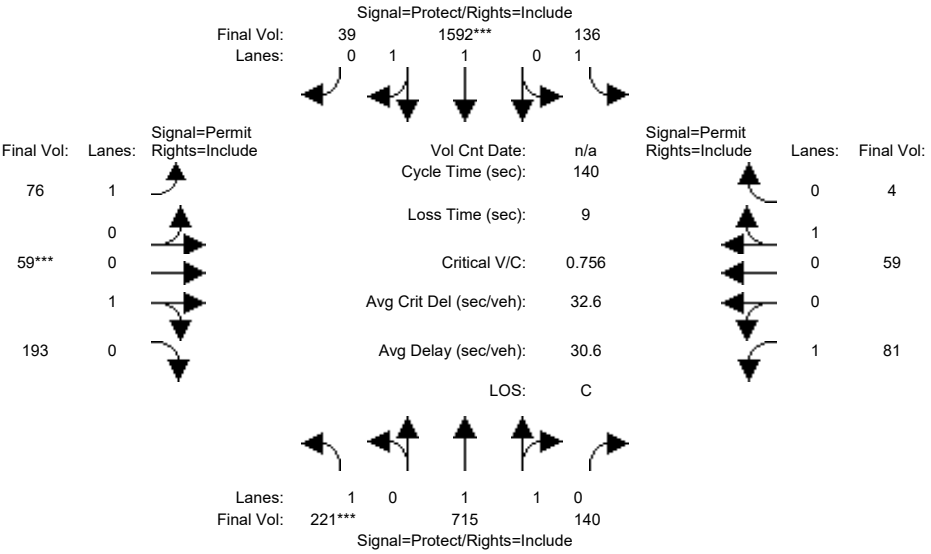
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative PM

Intersection #6: Shoreline Blvd. & Montecitio Ave.



Street Name:	Shorelline Blvd.						Montecitio Ave.					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L - T - R			L - T - R			L - T - R			L - T - R		
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	221	715	140	136	1592	39	76	59	193	81	59	4
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	221	715	140	136	1592	39	76	59	193	81	59	4
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	221	715	140	136	1592	39	76	59	193	81	59	4
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	221	715	140	136	1592	39	76	59	193	81	59	4
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	221	715	140	136	1592	39	76	59	193	81	59	4
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	221	715	140	136	1592	39	76	59	193	81	59	4
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	0.97	0.95	0.92	0.95	0.95	0.92	0.95	0.95
Lanes:	1.00	1.66	0.34	1.00	1.95	0.05	1.00	0.23	0.77	1.00	0.94	0.06
Final Sat.:	1750	3094	606	1750	3611	88	1750	421	1379	1750	1686	114
Capacity Analysis Module:												
Vol/Sat:	0.13	0.23	0.23	0.08	0.44	0.44	0.04	0.14	0.14	0.05	0.04	0.04
Crit Moves:	****				****			****				
Green Time:	23.4	78.6	78.6	26.4	81.7	81.7	25.9	25.9	25.9	25.9	25.9	25.9
Volume/Cap:	0.76	0.41	0.41	0.41	0.76	0.76	0.23	0.76	0.76	0.25	0.19	0.19
Delay/Veh:	66.3	17.6	17.6	50.8	23.3	23.3	48.9	63.5	63.5	49.1	48.4	48.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	66.3	17.6	17.6	50.8	23.3	23.3	48.9	63.5	63.5	49.1	48.4	48.4
LOS by Move:	E	B	B	D	C	C	D	E	E	D	D	D
HCM2kAvgQ:	10	10	10	6	27	27	3	12	12	3	2	2

Note: Queue reported is the number of cars per lane.

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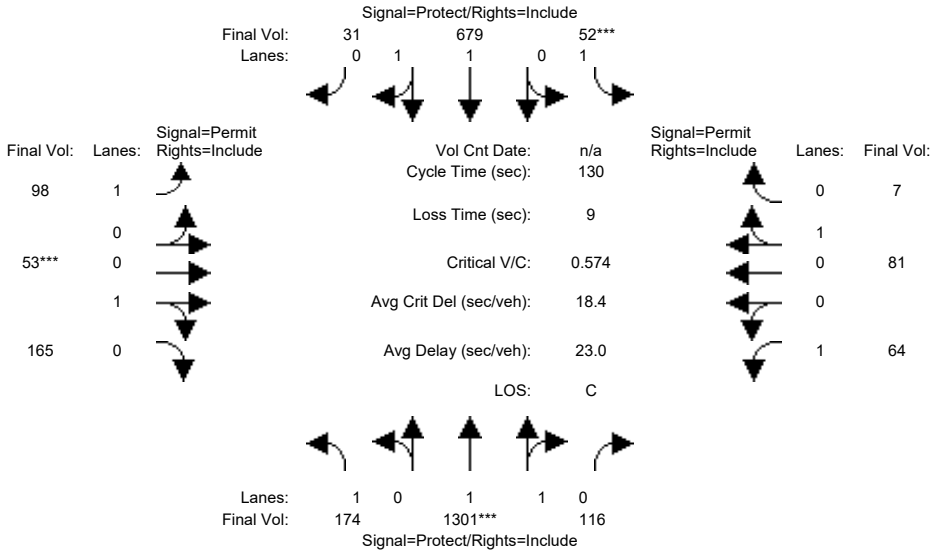
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumul+Proj AM

Intersection #6: Shoreline Blvd. & Montecitio Ave.



Street Name:	Shorelline Blvd.						Montecitio Ave.					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	174	1278	116	50	650	20	88	53	165	64	81	7
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	174	1278	116	50	650	20	88	53	165	64	81	7
Added Vol:	0	23	0	2	29	11	10	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	174	1301	116	52	679	31	98	53	165	64	81	7
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	174	1301	116	52	679	31	98	53	165	64	81	7
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	174	1301	116	52	679	31	98	53	165	64	81	7
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	174	1301	116	52	679	31	98	53	165	64	81	7
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	0.97	0.95	0.92	0.95	0.95	0.92	0.95	0.95
Lanes:	1.00	1.83	0.17	1.00	1.91	0.09	1.00	0.24	0.76	1.00	0.92	0.08
Final Sat.:	1750	3397	303	1750	3538	162	1750	438	1362	1750	1657	143
Capacity Analysis Module:												
Vol/Sat:	0.10	0.38	0.38	0.03	0.19	0.19	0.06	0.12	0.12	0.04	0.05	0.05
Crit Moves:		****		****				****				
Green Time:	31.9	86.6	86.6	7.0	61.7	61.7	27.4	27.4	27.4	27.4	27.4	27.4
Volume/Cap:	0.40	0.57	0.57	0.55	0.40	0.40	0.27	0.57	0.57	0.17	0.23	0.23
Delay/Veh:	41.7	12.1	12.1	66.9	22.4	22.4	43.3	48.2	48.2	42.3	42.9	42.9
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	41.7	12.1	12.1	66.9	22.4	22.4	43.3	48.2	48.2	42.3	42.9	42.9
LOS by Move:	D	B	B	E	C+	C+	D	D	D	D	D	D
HCM2kAvgQ:	6	16	16	3	9	9	4	9	9	2	3	3

Note: Queue reported is the number of cars per lane.

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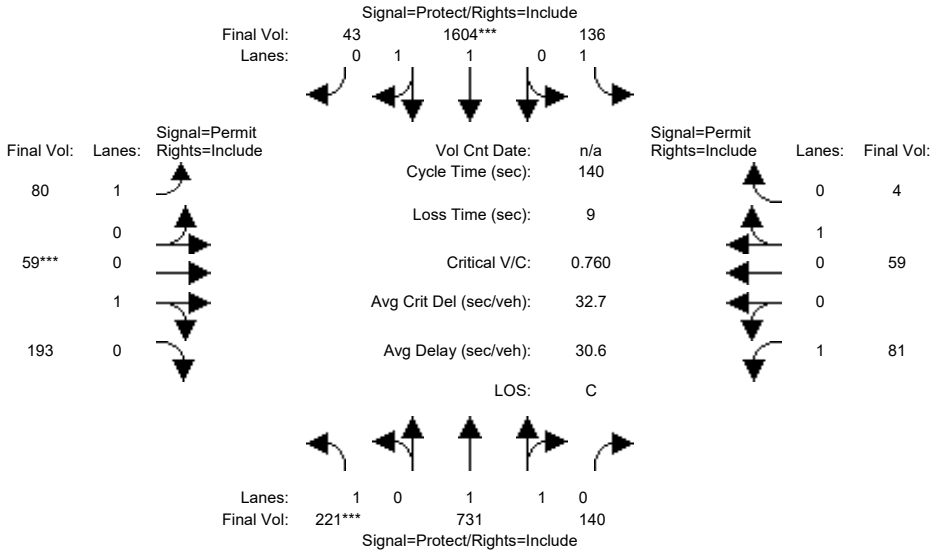
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumul+Proj PM

Intersection #6: Shoreline Blvd. & Montecitio Ave.



Street Name:	Shorelline Blvd.						Montecitio Ave.					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	221	715	140	136	1592	39	76	59	193	81	59	4
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	221	715	140	136	1592	39	76	59	193	81	59	4
Added Vol:	0	16	0	0	12	4	4	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	221	731	140	136	1604	43	80	59	193	81	59	4
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	221	731	140	136	1604	43	80	59	193	81	59	4
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	221	731	140	136	1604	43	80	59	193	81	59	4
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	221	731	140	136	1604	43	80	59	193	81	59	4
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	0.97	0.95	0.92	0.95	0.95	0.92	0.95	0.95
Lanes:	1.00	1.67	0.33	1.00	1.95	0.05	1.00	0.23	0.77	1.00	0.94	0.06
Final Sat.:	1750	3105	595	1750	3603	97	1750	421	1379	1750	1686	114
Capacity Analysis Module:												
Vol/Sat:	0.13	0.24	0.24	0.08	0.45	0.45	0.05	0.14	0.14	0.05	0.04	0.04
Crit Moves:	****				****			****				
Green Time:	23.3	79.1	79.1	26.1	82.0	82.0	25.8	25.8	25.8	25.8	25.8	25.8
Volume/Cap:	0.76	0.42	0.42	0.42	0.76	0.76	0.25	0.76	0.76	0.25	0.19	0.19
Delay/Veh:	66.8	17.5	17.5	51.1	23.3	23.3	49.2	64.0	64.0	49.3	48.6	48.6
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	66.8	17.5	17.5	51.1	23.3	23.3	49.2	64.0	64.0	49.3	48.6	48.6
LOS by Move:	E	B	B	D-	C	C	D	E	E	D	D	D
HCM2kAvgQ:	10	11	11	6	27	27	3	12	12	3	2	2

Note: Queue reported is the number of cars per lane.

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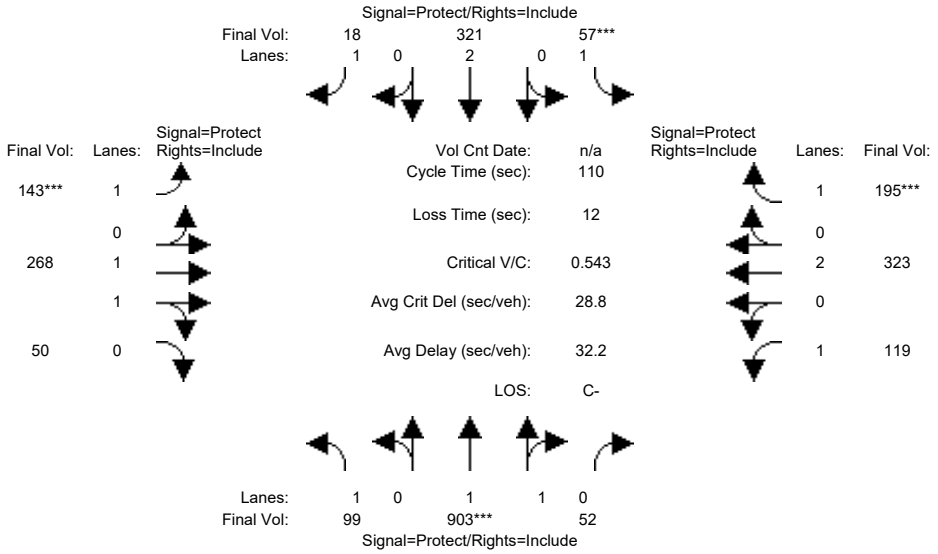
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative AM

Intersection #7: Rengstorff Ave & Middlefield Rd



Street Name:	Rengstorff Ave						Middlefield Rd					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	10	10	7	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	99	903	52	57	321	18	143	268	50	119	323	195
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	99	903	52	57	321	18	143	268	50	119	323	195
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	99	903	52	57	321	18	143	268	50	119	323	195
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	99	903	52	57	321	18	143	268	50	119	323	195
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	99	903	52	57	321	18	143	268	50	119	323	195
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	99	903	52	57	321	18	143	268	50	119	323	195
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	1.00	0.92	0.92	0.98	0.95	0.92	1.00	0.92
Lanes:	1.00	1.89	0.11	1.00	2.00	1.00	1.00	1.68	0.32	1.00	2.00	1.00
Final Sat.:	1750	3498	201	1750	3800	1750	1750	3118	582	1750	3800	1750
Capacity Analysis Module:												
Vol/Sat:	0.06	0.26	0.26	0.03	0.08	0.01	0.08	0.09	0.09	0.07	0.09	0.11
Crit Moves:		****		****			****					****
Green Time:	24.8	50.3	50.3	10.0	35.5	35.5	15.9	21.5	21.5	16.1	21.7	21.7
Volume/Cap:	0.25	0.56	0.56	0.36	0.26	0.03	0.56	0.44	0.44	0.46	0.43	0.56
Delay/Veh:	35.3	22.3	22.3	48.4	27.7	25.5	46.7	39.3	39.3	44.3	39.1	42.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	35.3	22.3	22.3	48.4	27.7	25.5	46.7	39.3	39.3	44.3	39.1	42.0
LOS by Move:	D+	C+	C+	D	C	C	D	D	D	D	D	D
HCM2kAvgQ:	3	12	12	2	4	0	6	5	5	4	5	6

Note: Queue reported is the number of cars per lane.

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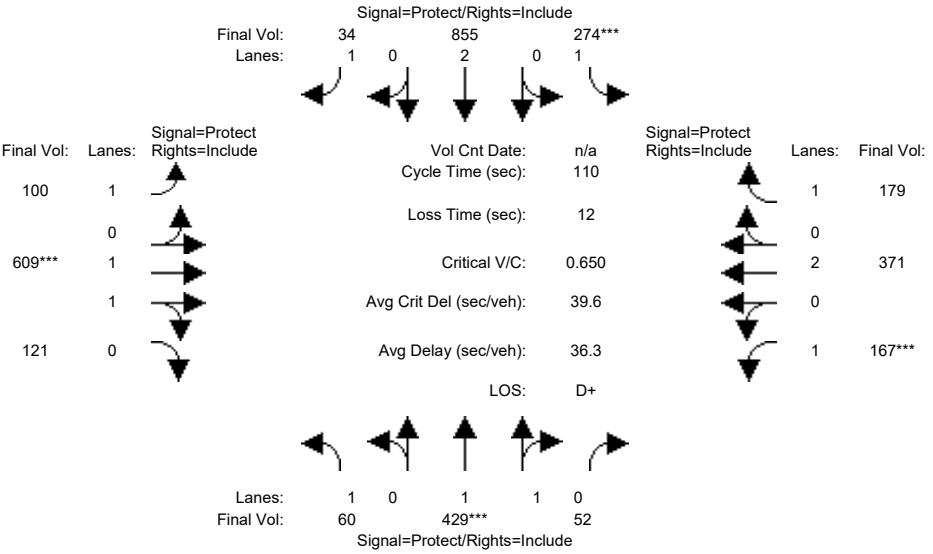
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative PM

Intersection #7: Rengstorff Ave & Middlefield Rd



Street Name:	Rengstorff Ave						Middlefield Rd					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	10	10	7	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	60	429	52	274	855	34	100	609	121	167	371	179
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	60	429	52	274	855	34	100	609	121	167	371	179
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	60	429	52	274	855	34	100	609	121	167	371	179
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	60	429	52	274	855	34	100	609	121	167	371	179
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	60	429	52	274	855	34	100	609	121	167	371	179
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	60	429	52	274	855	34	100	609	121	167	371	179
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	1.00	0.92	0.92	0.98	0.95	0.92	1.00	0.92
Lanes:	1.00	1.78	0.22	1.00	2.00	1.00	1.00	1.66	0.34	1.00	2.00	1.00
Final Sat.:	1750	3300	400	1750	3800	1750	1750	3086	613	1750	3800	1750
Capacity Analysis Module:												
Vol/Sat:	0.03	0.13	0.13	0.16	0.23	0.02	0.06	0.20	0.20	0.10	0.10	0.10
Crit Moves:		****		****				****		****		
Green Time:	10.7	22.0	22.0	26.5	37.8	37.8	19.0	33.4	33.4	16.1	30.5	30.5
Volume/Cap:	0.35	0.65	0.65	0.65	0.65	0.06	0.33	0.65	0.65	0.65	0.35	0.37
Delay/Veh:	47.7	42.5	42.5	41.2	31.8	24.2	40.6	34.6	34.6	50.1	32.0	32.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	47.7	42.5	42.5	41.2	31.8	24.2	40.6	34.6	34.6	50.1	32.0	32.5
LOS by Move:	D	D	D	D	C	C	D	C-	C-	D	C-	C-
HCM2kAvgQ:	2	9	9	10	13	1	3	12	12	6	5	5

Note: Queue reported is the number of cars per lane.

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Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
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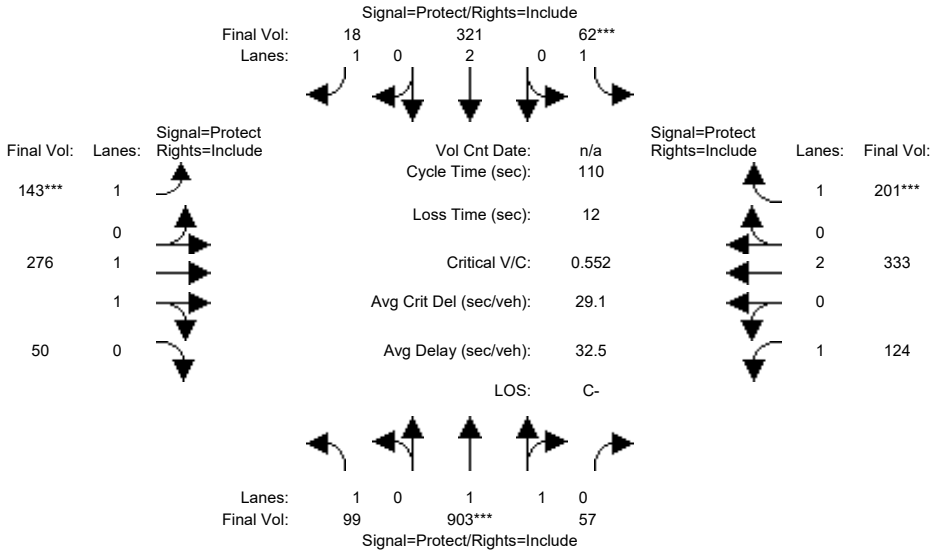
Intersection #7: Rengstorff Ave & Middlefield Rd



Street Name:	Rengstorff Ave						Middlefield Rd					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	10	10	7	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	99	903	52	57	321	18	143	268	50	119	323	195
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	99	903	52	57	321	18	143	268	50	119	323	195
Added Vol:	0	0	5	5	0	0	0	8	0	5	10	6
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	99	903	57	62	321	18	143	276	50	124	333	201
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	99	903	57	62	321	18	143	276	50	124	333	201
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	99	903	57	62	321	18	143	276	50	124	333	201
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	99	903	57	62	321	18	143	276	50	124	333	201
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	1.00	0.92	0.92	0.98	0.95	0.92	1.00	0.92
Lanes:	1.00	1.88	0.12	1.00	2.00	1.00	1.00	1.68	0.32	1.00	2.00	1.00
Final Sat.:	1750	3480	220	1750	3800	1750	1750	3132	567	1750	3800	1750
Capacity Analysis Module:												
Vol/Sat:	0.06	0.26	0.26	0.04	0.08	0.01	0.08	0.09	0.09	0.07	0.09	0.11
Crit Moves:		****		****			****					****
Green Time:	24.7	50.1	50.1	10.0	35.3	35.3	15.8	21.3	21.3	16.6	22.2	22.2
Volume/Cap:	0.25	0.57	0.57	0.39	0.26	0.03	0.57	0.45	0.45	0.47	0.43	0.57
Delay/Veh:	35.4	22.5	22.5	48.7	27.8	25.6	47.1	39.7	39.7	44.0	38.8	41.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	35.4	22.5	22.5	48.7	27.8	25.6	47.1	39.7	39.7	44.0	38.8	41.8
LOS by Move:	D+	C+	C+	D	C	C	D	D	D	D	D+	D
HCM2kAvgQ:	3	12	12	3	4	0	6	5	5	4	5	7

Note: Queue reported is the number of cars per lane.

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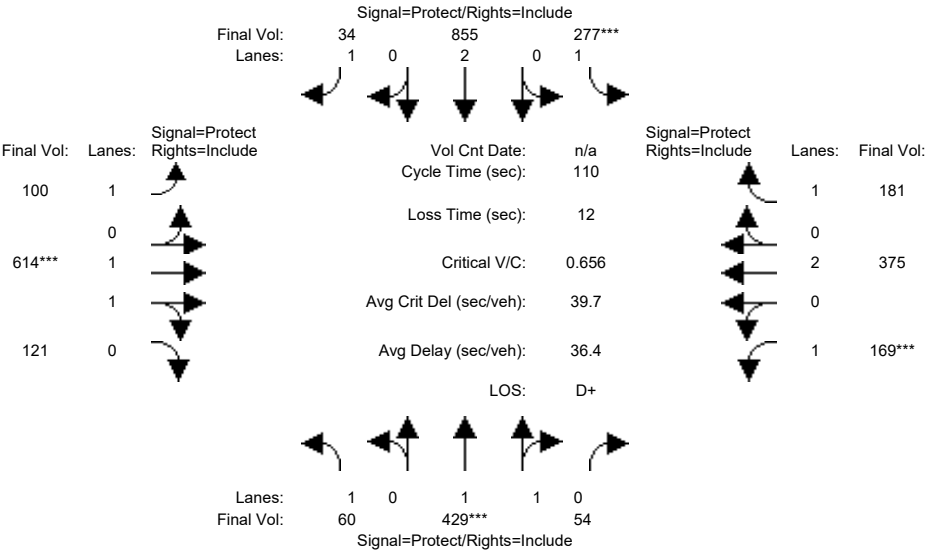
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumul+Proj PM

Intersection #7: Rengstorff Ave & Middlefield Rd



Street Name:	Rengstorff Ave						Middlefield Rd					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	10	10	7	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	60	429	52	274	855	34	100	609	121	167	371	179
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	60	429	52	274	855	34	100	609	121	167	371	179
Added Vol:	0	0	2	3	0	0	0	5	0	2	4	2
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	60	429	54	277	855	34	100	614	121	169	375	181
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	60	429	54	277	855	34	100	614	121	169	375	181
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	60	429	54	277	855	34	100	614	121	169	375	181
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	60	429	54	277	855	34	100	614	121	169	375	181
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	1.00	0.92	0.92	0.98	0.95	0.92	1.00	0.92
Lanes:	1.00	1.77	0.23	1.00	2.00	1.00	1.00	1.66	0.34	1.00	2.00	1.00
Final Sat.:	1750	3286	414	1750	3800	1750	1750	3090	609	1750	3800	1750
Capacity Analysis Module:												
Vol/Sat:	0.03	0.13	0.13	0.16	0.23	0.02	0.06	0.20	0.20	0.10	0.10	0.10
Crit Moves:		****		****				****		****		
Green Time:	10.7	21.9	21.9	26.6	37.8	37.8	18.9	33.3	33.3	16.2	30.7	30.7
Volume/Cap:	0.35	0.66	0.66	0.66	0.66	0.06	0.33	0.66	0.66	0.66	0.35	0.37
Delay/Veh:	47.7	42.7	42.7	41.3	31.8	24.2	40.7	34.8	34.8	50.3	31.9	32.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	47.7	42.7	42.7	41.3	31.8	24.2	40.7	34.8	34.8	50.3	31.9	32.4
LOS by Move:	D	D	D	D	C	C	D	C-	C-	D	C	C-
HCM2kAvgQ:	2	9	9	10	13	1	3	12	12	6	5	5

Note: Queue reported is the number of cars per lane.

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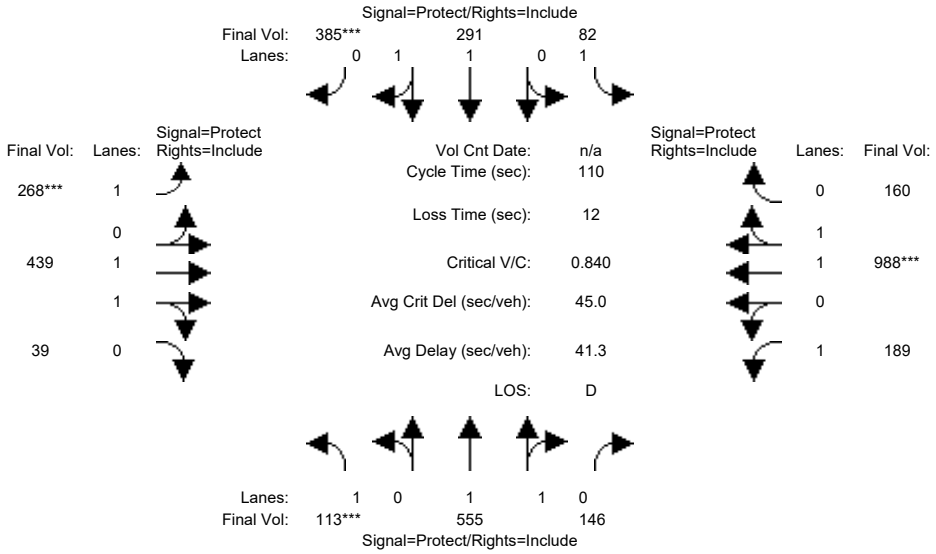
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative AM

Intersection #8: Moffett Blvd & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	113	555	146	82	291	385	268	439	39	189	988	160
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	113	555	146	82	291	385	268	439	39	189	988	160
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	113	555	146	82	291	385	268	439	39	189	988	160
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	113	555	146	82	291	385	268	439	39	189	988	160
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	113	555	146	82	291	385	268	439	39	189	988	160
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	113	555	146	82	291	385	268	439	39	189	988	160
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	1.00	0.92	0.92	0.98	0.95	0.92	0.98	0.95
Lanes:	1.00	1.57	0.43	1.00	1.00	1.00	1.00	1.83	0.17	1.00	1.71	0.29
Final Sat.:	1750	2929	770	1750	1900	1750	1750	3398	302	1750	3184	516
Capacity Analysis Module:												
Vol/Sat:	0.06	0.19	0.19	0.05	0.15	0.22	0.15	0.13	0.13	0.11	0.31	0.31
Crit Moves:	****					****	****				****	
Green Time:	8.5	27.9	27.9	9.4	28.8	28.8	20.1	33.1	33.1	27.6	40.7	40.7
Volume/Cap:	0.84	0.75	0.75	0.55	0.58	0.84	0.84	0.43	0.43	0.43	0.84	0.84
Delay/Veh:	85.1	41.1	41.1	52.6	36.1	46.2	61.1	31.2	31.2	35.2	36.5	36.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	85.1	41.1	41.1	52.6	36.1	46.2	61.1	31.2	31.2	35.2	36.5	36.5
LOS by Move:	F	D	D	D-	D+	D	E	C	C	D+	D+	D+
HCM2kAvgQ:	5	11	11	4	9	16	12	7	7	6	19	19

Note: Queue reported is the number of cars per lane.

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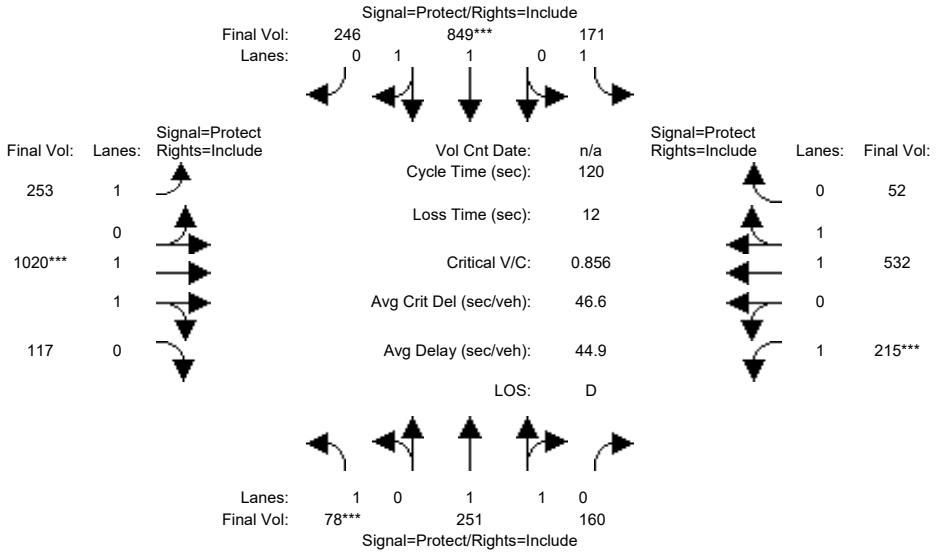
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative PM

Intersection #8: Moffett Blvd & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	78	251	160	171	849	246	253	1020	117	215	532	52
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	78	251	160	171	849	246	253	1020	117	215	532	52
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	78	251	160	171	849	246	253	1020	117	215	532	52
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	78	251	160	171	849	246	253	1020	117	215	532	52
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	78	251	160	171	849	246	253	1020	117	215	532	52
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	78	251	160	171	849	246	253	1020	117	215	532	52
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.92	0.98	0.95	0.92	0.98	0.95	0.92	0.98	0.95
Lanes:	1.00	1.20	0.80	1.00	1.54	0.46	1.00	1.79	0.21	1.00	1.82	0.18
Final Sat.:	1750	2259	1440	1750	2868	831	1750	3319	381	1750	3370	329
Capacity Analysis Module:												
Vol/Sat:	0.04	0.11	0.11	0.10	0.30	0.30	0.14	0.31	0.31	0.12	0.16	0.16
Crit Moves:	****				****			****			****	
Green Time:	7.0	25.6	25.6	22.5	41.2	41.2	28.6	42.7	42.7	17.1	31.2	31.2
Volume/Cap:	0.76	0.52	0.52	0.52	0.86	0.86	0.61	0.86	0.86	0.86	0.61	0.61
Delay/Veh:	84.1	42.4	42.4	45.4	43.1	43.1	43.3	42.0	42.0	75.5	40.1	40.1
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	84.1	42.4	42.4	45.4	43.1	43.1	43.3	42.0	42.0	75.5	40.1	40.1
LOS by Move:	F	D	D	D	D	D	D	D	D	E-	D	D
HCM2kAvgQ:	3	7	7	7	22	22	10	23	23	9	10	10

Note: Queue reported is the number of cars per lane.

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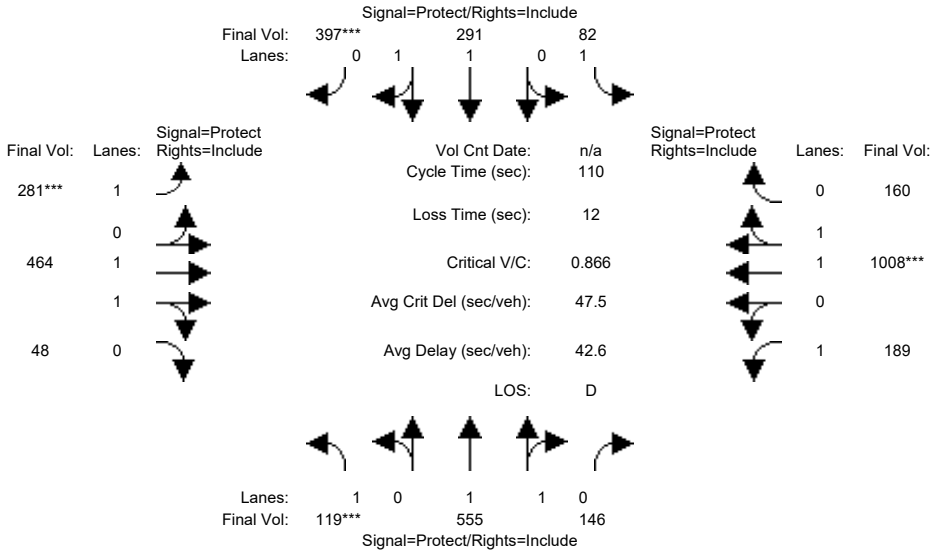
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumul+Proj AM

Intersection #8: Moffett Blvd & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	113	555	146	82	291	385	268	439	39	189	988	160
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	113	555	146	82	291	385	268	439	39	189	988	160
Added Vol:	6	0	0	0	0	12	13	25	9	0	20	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	119	555	146	82	291	397	281	464	48	189	1008	160
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	119	555	146	82	291	397	281	464	48	189	1008	160
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	119	555	146	82	291	397	281	464	48	189	1008	160
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	119	555	146	82	291	397	281	464	48	189	1008	160
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	1.00	0.92	0.92	0.98	0.95	0.92	0.98	0.95
Lanes:	1.00	1.57	0.43	1.00	1.00	1.00	1.00	1.81	0.19	1.00	1.72	0.28
Final Sat.:	1750	2929	770	1750	1900	1750	1750	3353	347	1750	3193	507
Capacity Analysis Module:												
Vol/Sat:	0.07	0.19	0.19	0.05	0.15	0.23	0.16	0.14	0.14	0.11	0.32	0.32
Crit Moves:	****					****	****				****	
Green Time:	8.6	28.1	28.1	9.4	28.8	28.8	20.4	34.0	34.0	26.5	40.1	40.1
Volume/Cap:	0.87	0.74	0.74	0.55	0.58	0.87	0.87	0.45	0.45	0.45	0.87	0.87
Delay/Veh:	90.0	40.9	40.9	52.4	36.1	48.6	64.3	30.8	30.8	36.3	38.6	38.6
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	90.0	40.9	40.9	52.4	36.1	48.6	64.3	30.8	30.8	36.3	38.6	38.6
LOS by Move:	F	D	D	D-	D+	D	E	C	C	D+	D+	D+
HCM2kAvgQ:	5	11	11	4	9	17	13	7	7	6	20	20

Note: Queue reported is the number of cars per lane.

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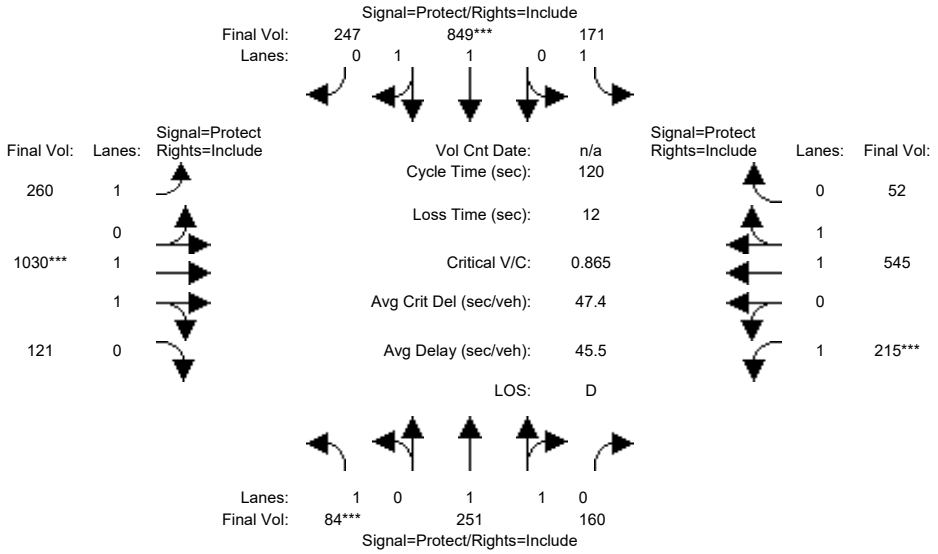
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumul+Proj PM

Intersection #8: Moffett Blvd & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	78	251	160	171	849	246	253	1020	117	215	532	52
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	78	251	160	171	849	246	253	1020	117	215	532	52
Added Vol:	6	0	0	0	0	1	7	10	4	0	13	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	84	251	160	171	849	247	260	1030	121	215	545	52
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	84	251	160	171	849	247	260	1030	121	215	545	52
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	84	251	160	171	849	247	260	1030	121	215	545	52
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	84	251	160	171	849	247	260	1030	121	215	545	52
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.92	0.98	0.95	0.92	0.98	0.95	0.92	0.98	0.95
Lanes:	1.00	1.20	0.80	1.00	1.54	0.46	1.00	1.78	0.22	1.00	1.82	0.18
Final Sat.:	1750	2259	1440	1750	2866	834	1750	3311	389	1750	3377	322
Capacity Analysis Module:												
Vol/Sat:	0.05	0.11	0.11	0.10	0.30	0.30	0.15	0.31	0.31	0.12	0.16	0.16
Crit Moves:	****				****			****			****	
Green Time:	7.0	25.5	25.5	22.4	41.0	41.0	28.8	43.0	43.0	17.0	31.2	31.2
Volume/Cap:	0.82	0.52	0.52	0.52	0.87	0.87	0.62	0.87	0.87	0.87	0.62	0.62
Delay/Veh:	95.2	42.5	42.5	45.5	43.6	43.6	43.6	42.2	42.2	76.5	40.4	40.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	95.2	42.5	42.5	45.5	43.6	43.6	43.6	42.2	42.2	76.5	40.4	40.4
LOS by Move:	F	D	D	D	D	D	D	D	D	E-	D	D
HCM2kAvgQ:	4	7	7	7	22	22	10	23	23	9	10	10

Note: Queue reported is the number of cars per lane.

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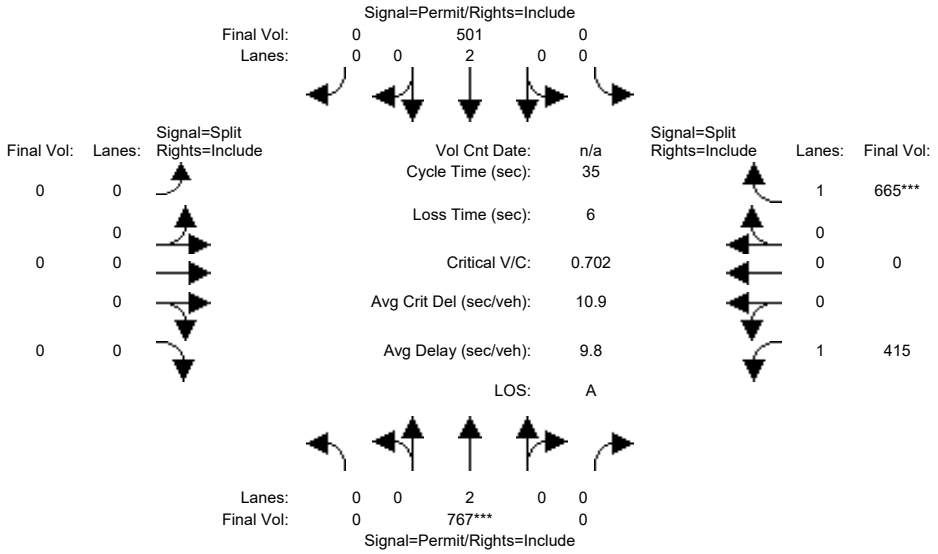
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative AM

Intersection #9: Moffett Blvd & SR 85 NB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	10	0	0	10	0	0	0	0	10	0	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	767	0	0	501	0	0	0	0	415	0	665
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	767	0	0	501	0	0	0	0	415	0	665
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	767	0	0	501	0	0	0	0	415	0	665
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	767	0	0	501	0	0	0	0	415	0	665
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	767	0	0	501	0	0	0	0	415	0	665
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	767	0	0	501	0	0	0	0	415	0	665
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	0	3800	0	0	3800	0	0	0	0	1750	0	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.20	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.24	0.00	0.38
Crit Moves:		****										****
Green Time:	0.0	10.1	0.0	0.0	10.1	0.0	0.0	0.0	0.0	18.9	0.0	18.9
Volume/Cap:	0.00	0.70	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.44	0.00	0.70
Delay/Veh:	0.0	13.2	0.0	0.0	10.5	0.0	0.0	0.0	0.0	5.2	0.0	8.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	13.2	0.0	0.0	10.5	0.0	0.0	0.0	0.0	5.2	0.0	8.3
LOS by Move:	A	B	A	A	B+	A	A	A	A	A	A	A
HCM2kAvgQ:	0	5	0	0	2	0	0	0	0	3	0	7

Note: Queue reported is the number of cars per lane.

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1001 N Shoreline Blvd Residential Development
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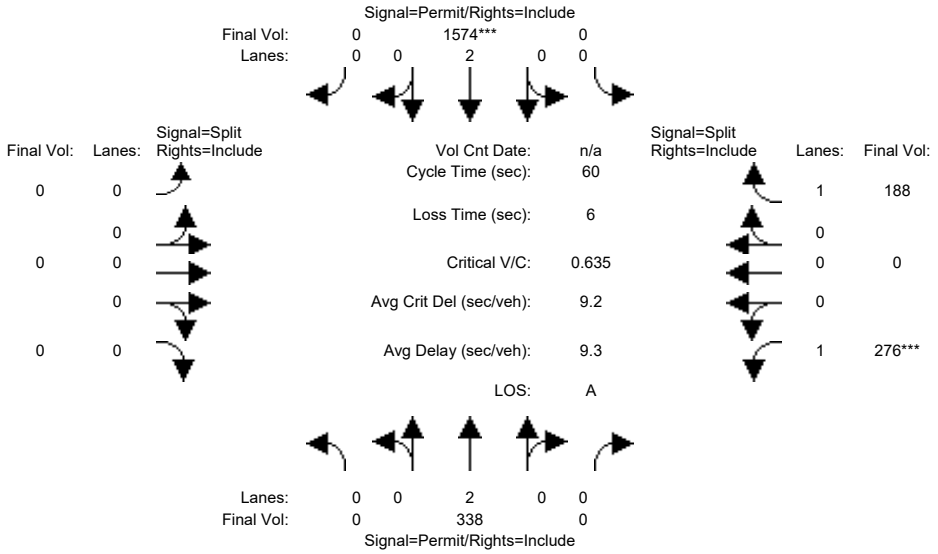
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative PM

Intersection #9: Moffett Blvd & SR 85 NB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	10	0	0	10	0	0	0	0	10	0	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	338	0	0	1574	0	0	0	0	276	0	188
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	338	0	0	1574	0	0	0	0	276	0	188
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	338	0	0	1574	0	0	0	0	276	0	188
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	338	0	0	1574	0	0	0	0	276	0	188
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	338	0	0	1574	0	0	0	0	276	0	188
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	338	0	0	1574	0	0	0	0	276	0	188
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	0	3800	0	0	3800	0	0	0	0	1750	0	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.09	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.16	0.00	0.11
Crit Moves:					****					****		
Green Time:	0.0	39.1	0.0	0.0	39.1	0.0	0.0	0.0	0.0	14.9	0.0	14.9
Volume/Cap:	0.00	0.14	0.00	0.00	0.64	0.00	0.00	0.00	0.00	0.64	0.00	0.43
Delay/Veh:	0.0	4.0	0.0	0.0	6.8	0.0	0.0	0.0	0.0	23.2	0.0	19.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	4.0	0.0	0.0	6.8	0.0	0.0	0.0	0.0	23.2	0.0	19.7
LOS by Move:	A	A	A	A	A	A	A	A	A	C	A	B-
HCM2kAvgQ:	0	1	0	0	8	0	0	0	0	6	0	4

Note: Queue reported is the number of cars per lane.

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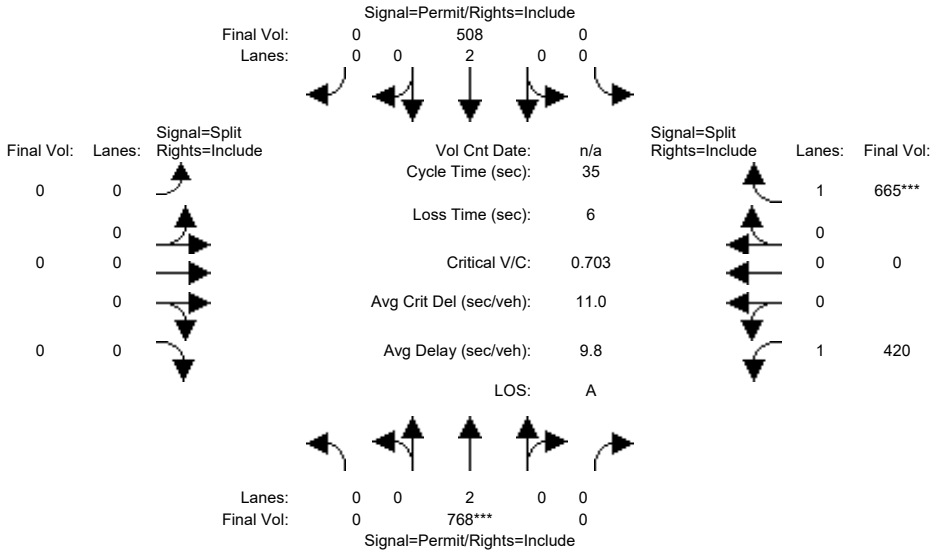
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumul+Proj AM

Intersection #9: Moffett Blvd & SR 85 NB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	10	0	0	10	0	0	0	0	10	0	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	767	0	0	501	0	0	0	0	415	0	665
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	767	0	0	501	0	0	0	0	415	0	665
Added Vol:	0	1	0	0	7	0	0	0	0	5	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	768	0	0	508	0	0	0	0	420	0	665
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	768	0	0	508	0	0	0	0	420	0	665
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	768	0	0	508	0	0	0	0	420	0	665
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	768	0	0	508	0	0	0	0	420	0	665
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	0	3800	0	0	3800	0	0	0	0	1750	0	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.20	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.24	0.00	0.38
Crit Moves:		****										****
Green Time:	0.0	10.1	0.0	0.0	10.1	0.0	0.0	0.0	0.0	18.9	0.0	18.9
Volume/Cap:	0.00	0.70	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.44	0.00	0.70
Delay/Veh:	0.0	13.2	0.0	0.0	10.6	0.0	0.0	0.0	0.0	5.2	0.0	8.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	13.2	0.0	0.0	10.6	0.0	0.0	0.0	0.0	5.2	0.0	8.3
LOS by Move:	A	B	A	A	B+	A	A	A	A	A	A	A
HCM2kAvgQ:	0	5	0	0	2	0	0	0	0	3	0	7

Note: Queue reported is the number of cars per lane.

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1001 N Shoreline Blvd Residential Development
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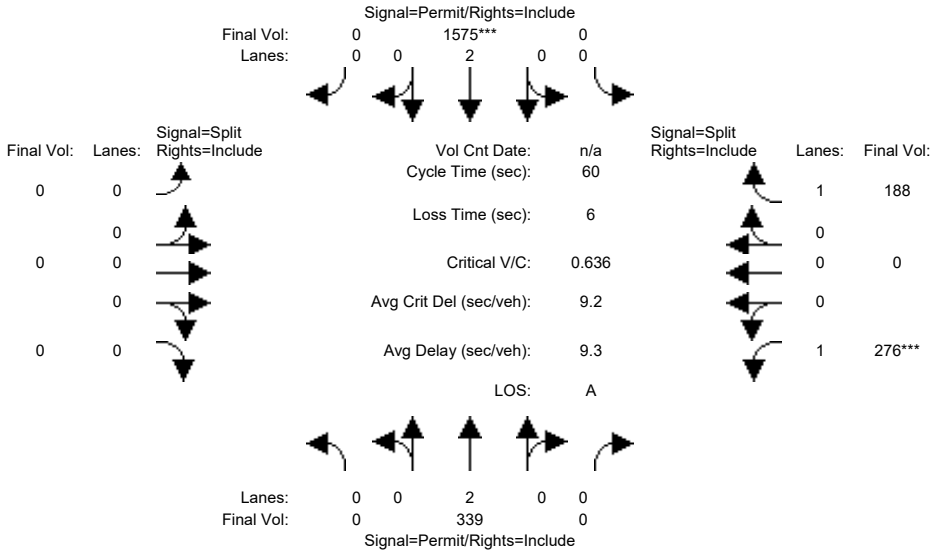
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumul+Proj PM

Intersection #9: Moffett Blvd & SR 85 NB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	10	0	0	10	0	0	0	0	10	0	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	338	0	0	1574	0	0	0	0	276	0	188
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	338	0	0	1574	0	0	0	0	276	0	188
Added Vol:	0	1	0	0	1	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	339	0	0	1575	0	0	0	0	276	0	188
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	339	0	0	1575	0	0	0	0	276	0	188
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	339	0	0	1575	0	0	0	0	276	0	188
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	339	0	0	1575	0	0	0	0	276	0	188
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	0	3800	0	0	3800	0	0	0	0	1750	0	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.09	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.16	0.00	0.11
Crit Moves:					****					****		
Green Time:	0.0	39.1	0.0	0.0	39.1	0.0	0.0	0.0	0.0	14.9	0.0	14.9
Volume/Cap:	0.00	0.14	0.00	0.00	0.64	0.00	0.00	0.00	0.00	0.64	0.00	0.43
Delay/Veh:	0.0	4.0	0.0	0.0	6.8	0.0	0.0	0.0	0.0	23.2	0.0	19.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	4.0	0.0	0.0	6.8	0.0	0.0	0.0	0.0	23.2	0.0	19.7
LOS by Move:	A	A	A	A	A	A	A	A	A	C	A	B-
HCM2kAvgQ:	0	1	0	0	8	0	0	0	0	6	0	4

Note: Queue reported is the number of cars per lane.

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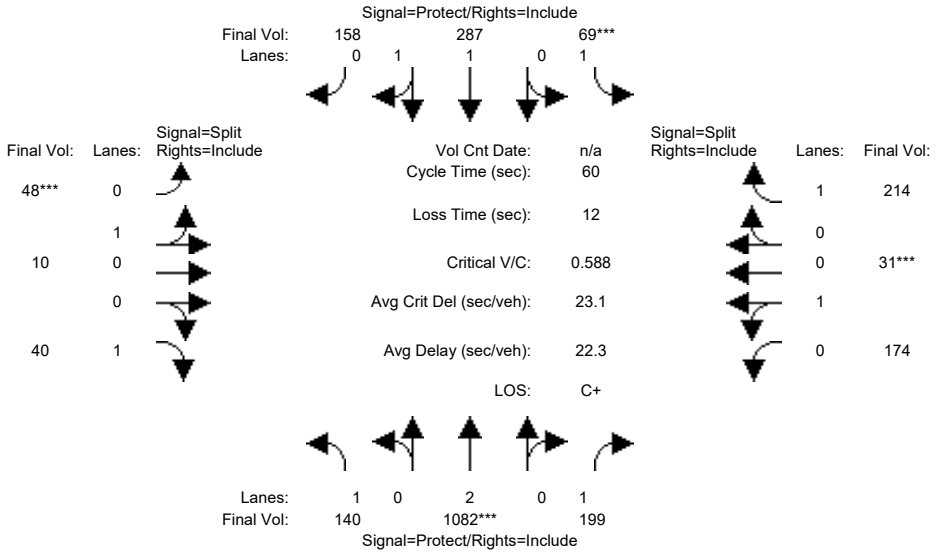
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative AM

Intersection #10: Moffett Blvd & Leong Dr



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	140	1082	199	69	287	158	48	10	40	174	31	214
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	140	1082	199	69	287	158	48	10	40	174	31	214
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	140	1082	199	69	287	158	48	10	40	174	31	214
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	140	1082	199	69	287	158	48	10	40	174	31	214
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	140	1082	199	69	287	158	48	10	40	174	31	214
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	140	1082	199	69	287	158	48	10	40	174	31	214
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	0.99	0.95	0.95	0.95	0.92	0.95	0.95	0.92
Lanes:	1.00	2.00	1.00	1.00	1.27	0.73	0.83	0.17	1.00	0.85	0.15	1.00
Final Sat.:	1750	3800	1750	1750	2385	1313	1490	310	1750	1528	272	1750
Capacity Analysis Module:												
Vol/Sat:	0.08	0.28	0.11	0.04	0.12	0.12	0.03	0.03	0.02	0.11	0.11	0.12
Crit Moves:		****		****			****				****	
Green Time:	11.5	21.0	21.0	7.0	16.5	16.5	10.0	10.0	10.0	10.0	10.0	10.0
Volume/Cap:	0.42	0.81	0.32	0.34	0.44	0.44	0.19	0.19	0.14	0.68	0.68	0.73
Delay/Veh:	22.1	21.7	14.6	25.4	18.3	18.3	21.8	21.8	21.5	29.9	29.9	33.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	22.1	21.7	14.6	25.4	18.3	18.3	21.8	21.8	21.5	29.9	29.9	33.0
LOS by Move:	C+	C+	B	C	B-	B-	C+	C+	C+	C	C	C-
HCM2kAvgQ:	2	9	3	1	3	3	1	1	1	5	5	6

Note: Queue reported is the number of cars per lane.

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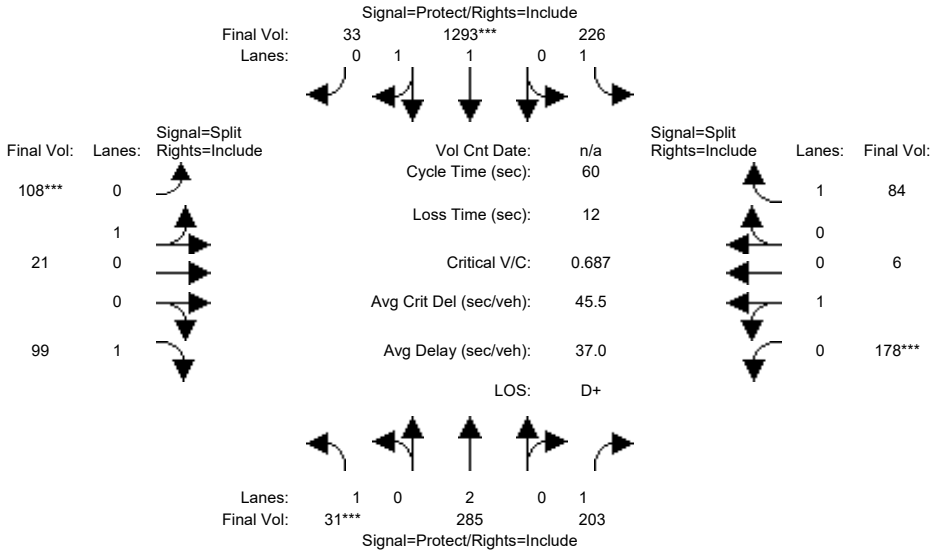
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative PM

Intersection #10: Moffett Blvd & Leong Dr



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	31	285	203	226	1293	33	108	21	99	178	6	84
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	31	285	203	226	1293	33	108	21	99	178	6	84
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	31	285	203	226	1293	33	108	21	99	178	6	84
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	31	285	203	226	1293	33	108	21	99	178	6	84
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	31	285	203	226	1293	33	108	21	99	178	6	84
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	31	285	203	226	1293	33	108	21	99	178	6	84
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	0.97	0.95	0.95	0.95	0.92	0.95	0.95	0.92
Lanes:	1.00	2.00	1.00	1.00	1.95	0.05	0.84	0.16	1.00	0.97	0.03	1.00
Final Sat.:	1750	3800	1750	1750	3608	92	1507	293	1750	1741	59	1750
Capacity Analysis Module:												
Vol/Sat:	0.02	0.08	0.12	0.13	0.36	0.36	0.07	0.07	0.06	0.10	0.10	0.05
Crit Moves:	****				****		****			****		
Green Time:	7.0	15.8	15.8	12.2	21.0	21.0	10.0	10.0	10.0	10.0	10.0	10.0
Volume/Cap:	0.15	0.29	0.44	0.63	1.02	1.02	0.43	0.43	0.34	0.61	0.61	0.29
Delay/Veh:	24.2	17.8	19.1	25.6	50.8	50.8	23.4	23.4	22.8	26.9	26.9	22.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	24.2	17.8	19.1	25.6	50.8	50.8	23.4	23.4	22.8	26.9	26.9	22.4
LOS by Move:	C	B	B-	C	D	D	C	C	C+	C	C	C+
HCM2kAvgQ:	1	2	3	4	18	18	3	3	2	4	4	2

Note: Queue reported is the number of cars per lane.

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1001 N Shoreline Blvd Residential Development
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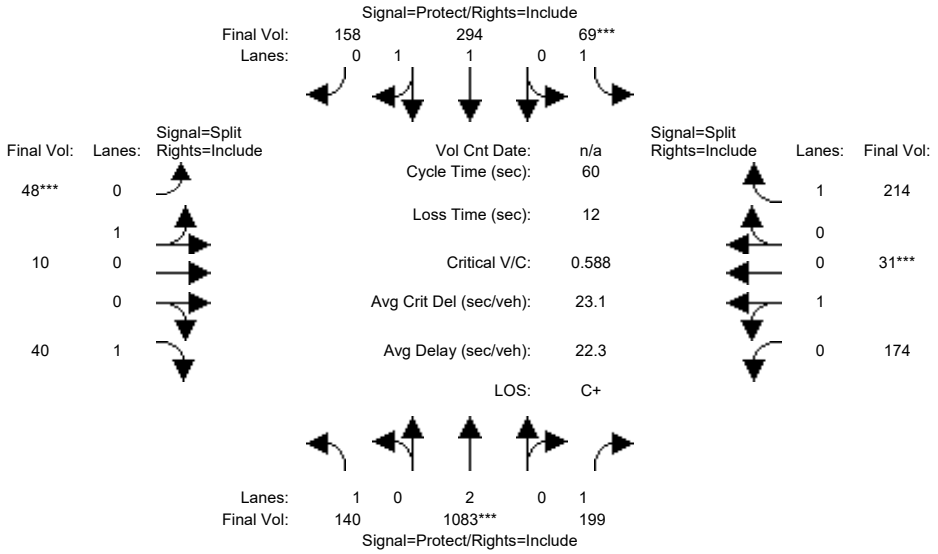
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumul+Proj AM

Intersection #10: Moffett Blvd & Leong Dr



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	140	1082	199	69	287	158	48	10	40	174	31	214
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	140	1082	199	69	287	158	48	10	40	174	31	214
Added Vol:	0	1	0	0	7	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	140	1083	199	69	294	158	48	10	40	174	31	214
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	140	1083	199	69	294	158	48	10	40	174	31	214
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	140	1083	199	69	294	158	48	10	40	174	31	214
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	140	1083	199	69	294	158	48	10	40	174	31	214
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	0.99	0.95	0.95	0.95	0.92	0.95	0.95	0.92
Lanes:	1.00	2.00	1.00	1.00	1.28	0.72	0.83	0.17	1.00	0.85	0.15	1.00
Final Sat.:	1750	3800	1750	1750	2406	1293	1490	310	1750	1528	272	1750
Capacity Analysis Module:												
Vol/Sat:	0.08	0.28	0.11	0.04	0.12	0.12	0.03	0.03	0.02	0.11	0.11	0.12
Crit Moves:		****		****			****				****	
Green Time:	11.5	21.0	21.0	7.0	16.5	16.5	10.0	10.0	10.0	10.0	10.0	10.0
Volume/Cap:	0.42	0.81	0.32	0.34	0.45	0.45	0.19	0.19	0.14	0.68	0.68	0.73
Delay/Veh:	22.1	21.7	14.6	25.4	18.3	18.3	21.8	21.8	21.5	29.9	29.9	33.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	22.1	21.7	14.6	25.4	18.3	18.3	21.8	21.8	21.5	29.9	29.9	33.0
LOS by Move:	C+	C+	B	C	B-	B-	C+	C+	C+	C	C	C-
HCM2kAvgQ:	2	9	3	1	3	3	1	1	1	5	5	6

Note: Queue reported is the number of cars per lane.

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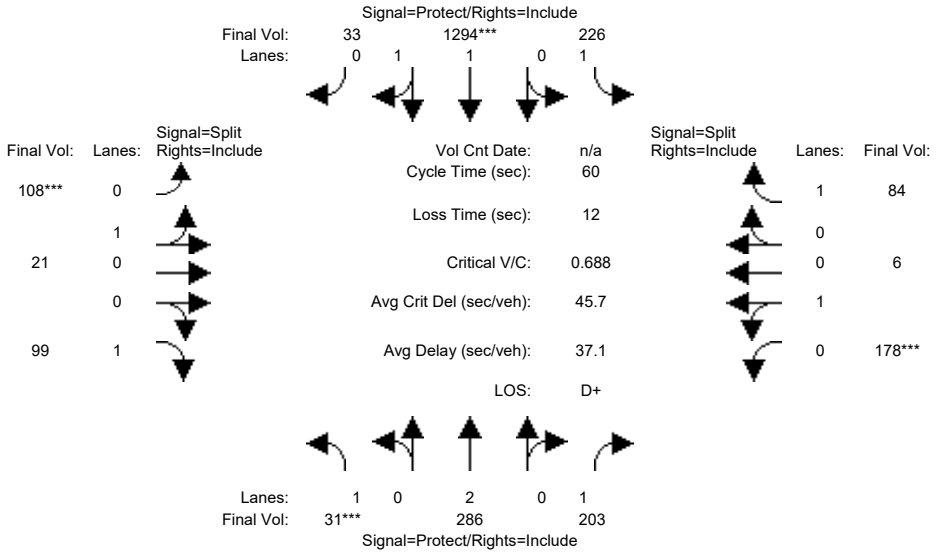
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumul+Proj PM

Intersection #10: Moffett Blvd & Leong Dr



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	31	285	203	226	1293	33	108	21	99	178	6	84
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	31	285	203	226	1293	33	108	21	99	178	6	84
Added Vol:	0	1	0	0	1	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	31	286	203	226	1294	33	108	21	99	178	6	84
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	31	286	203	226	1294	33	108	21	99	178	6	84
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	31	286	203	226	1294	33	108	21	99	178	6	84
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	31	286	203	226	1294	33	108	21	99	178	6	84
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	0.97	0.95	0.95	0.95	0.92	0.95	0.95	0.92
Lanes:	1.00	2.00	1.00	1.00	1.95	0.05	0.84	0.16	1.00	0.97	0.03	1.00
Final Sat.:	1750	3800	1750	1750	3608	92	1507	293	1750	1741	59	1750
Capacity Analysis Module:												
Vol/Sat:	0.02	0.08	0.12	0.13	0.36	0.36	0.07	0.07	0.06	0.10	0.10	0.05
Crit Moves:	****				****		****			****		
Green Time:	7.0	15.8	15.8	12.2	21.0	21.0	10.0	10.0	10.0	10.0	10.0	10.0
Volume/Cap:	0.15	0.29	0.44	0.63	1.02	1.02	0.43	0.43	0.34	0.61	0.61	0.29
Delay/Veh:	24.2	17.8	19.1	25.6	51.0	51.0	23.4	23.4	22.8	26.9	26.9	22.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	24.2	17.8	19.1	25.6	51.0	51.0	23.4	23.4	22.8	26.9	26.9	22.4
LOS by Move:	C	B	B-	C	D	D	C	C	C+	C	C	C+
HCM2kAvgQ:	1	2	3	4	18	18	3	3	2	4	4	2

Note: Queue reported is the number of cars per lane.

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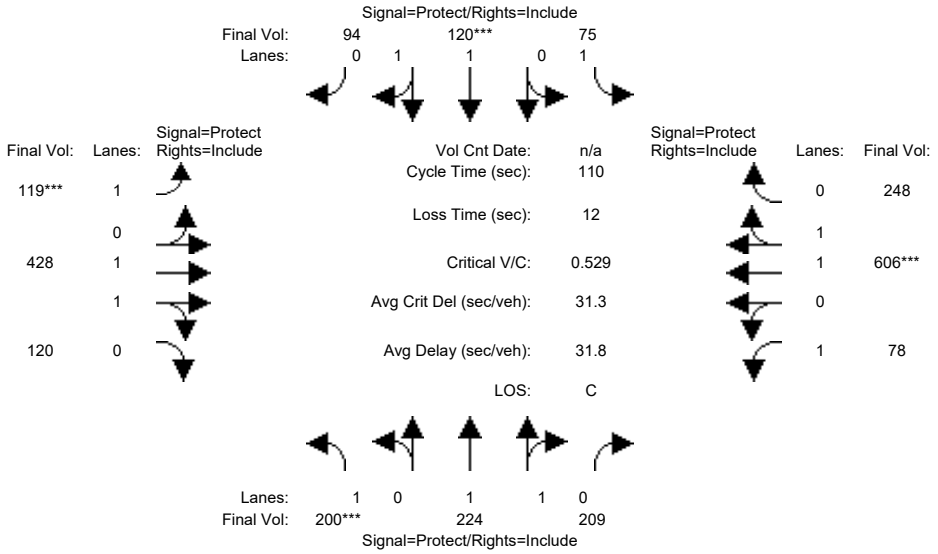
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative AM

Intersection #11: Whisman Rd & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	200	224	209	75	120	94	119	428	120	78	606	248
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	200	224	209	75	120	94	119	428	120	78	606	248
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	200	224	209	75	120	94	119	428	120	78	606	248
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	200	224	209	75	120	94	119	428	120	78	606	248
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	200	224	209	75	120	94	119	428	120	78	606	248
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	200	224	209	75	120	94	119	428	120	78	606	248
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.95	0.92	0.99	0.95	0.92	0.98	0.95	0.92	0.98	0.95
Lanes:	1.00	1.01	0.99	1.00	1.10	0.90	1.00	1.55	0.45	1.00	1.40	0.60
Final Sat.:	1750	1913	1785	1750	2074	1624	1750	2889	810	1750	2625	1074
Capacity Analysis Module:												
Vol/Sat:	0.11	0.12	0.12	0.04	0.06	0.06	0.07	0.15	0.15	0.04	0.23	0.23
Crit Moves:	****				****		****				****	
Green Time:	23.8	23.2	23.2	12.6	12.0	12.0	14.1	43.5	43.5	18.7	48.0	48.0
Volume/Cap:	0.53	0.56	0.56	0.37	0.53	0.53	0.53	0.37	0.37	0.26	0.53	0.53
Delay/Veh:	39.6	39.7	39.7	46.2	47.6	47.6	47.2	23.8	23.8	40.1	23.0	23.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	39.6	39.7	39.7	46.2	47.6	47.6	47.2	23.8	23.8	40.1	23.0	23.0
LOS by Move:	D	D	D	D	D	D	D	C	C	D	C	C
HCM2kAvgQ:	7	7	7	3	4	4	4	6	6	3	11	11

Note: Queue reported is the number of cars per lane.

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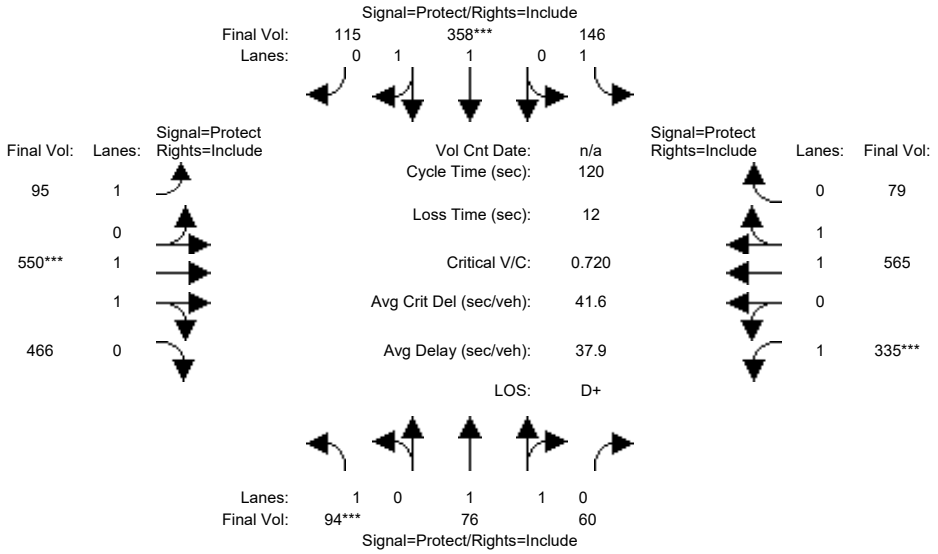
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative PM

Intersection #11: Whisman Rd & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	94	76	60	146	358	115	95	550	466	335	565	79
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	94	76	60	146	358	115	95	550	466	335	565	79
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	94	76	60	146	358	115	95	550	466	335	565	79
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	94	76	60	146	358	115	95	550	466	335	565	79
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	94	76	60	146	358	115	95	550	466	335	565	79
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	94	76	60	146	358	115	95	550	466	335	565	79
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.92	0.98	0.95	0.92	1.00	0.95	0.92	0.98	0.95
Lanes:	1.00	1.09	0.91	1.00	1.50	0.50	1.00	1.06	0.94	1.00	1.75	0.25
Final Sat.:	1750	2066	1631	1750	2800	899	1750	2002	1696	1750	3246	454
Capacity Analysis Module:												
Vol/Sat:	0.05	0.04	0.04	0.08	0.13	0.13	0.05	0.27	0.27	0.19	0.17	0.17
Crit Moves:	****				****			****			****	
Green Time:	9.0	15.1	15.1	15.1	21.3	21.3	19.5	45.8	45.8	31.9	58.2	58.2
Volume/Cap:	0.72	0.29	0.29	0.66	0.72	0.72	0.33	0.72	0.72	0.72	0.36	0.36
Delay/Veh:	71.9	47.9	47.9	57.2	50.4	50.4	45.2	33.5	33.5	45.4	19.4	19.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	71.9	47.9	47.9	57.2	50.4	50.4	45.2	33.5	33.5	45.4	19.4	19.4
LOS by Move:	E	D	D	E+	D	D	D	C-	C-	D	B-	B-
HCM2kAvgQ:	5	3	3	7	10	10	3	16	16	13	7	7

Note: Queue reported is the number of cars per lane.

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Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
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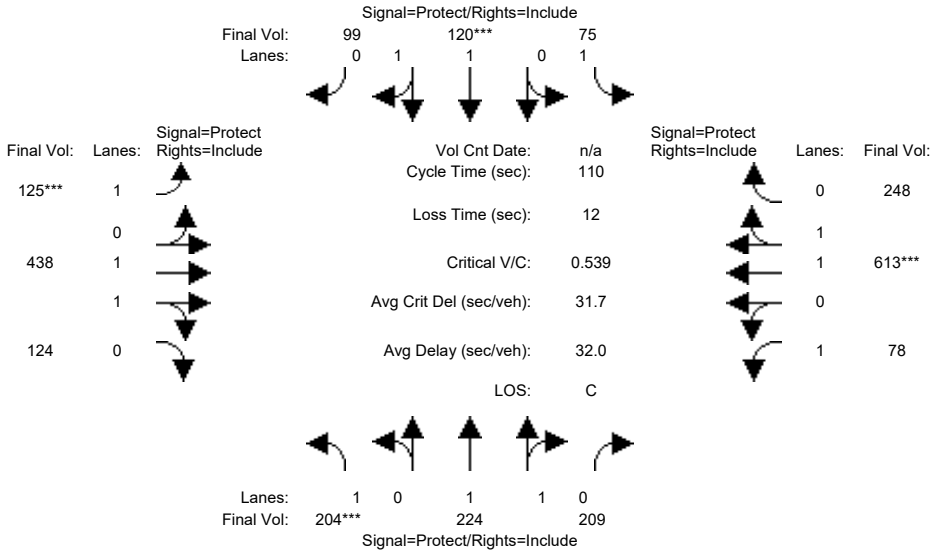
Intersection #11: Whisman Rd & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	200	224	209	75	120	94	119	428	120	78	606	248
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	200	224	209	75	120	94	119	428	120	78	606	248
Added Vol:	4	0	0	0	0	5	6	10	4	0	7	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	204	224	209	75	120	99	125	438	124	78	613	248
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	204	224	209	75	120	99	125	438	124	78	613	248
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	204	224	209	75	120	99	125	438	124	78	613	248
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	204	224	209	75	120	99	125	438	124	78	613	248
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.95	0.92	1.00	0.95	0.92	0.98	0.95	0.92	0.98	0.95
Lanes:	1.00	1.01	0.99	1.00	1.07	0.93	1.00	1.55	0.45	1.00	1.41	0.59
Final Sat.:	1750	1913	1785	1750	2026	1672	1750	2883	816	1750	2633	1065
Capacity Analysis Module:												
Vol/Sat:	0.12	0.12	0.12	0.04	0.06	0.06	0.07	0.15	0.15	0.04	0.23	0.23
Crit Moves:	****				****		****				****	
Green Time:	23.8	23.3	23.3	12.6	12.1	12.1	14.6	43.8	43.8	18.3	47.5	47.5
Volume/Cap:	0.54	0.55	0.55	0.37	0.54	0.54	0.54	0.38	0.38	0.27	0.54	0.54
Delay/Veh:	39.8	39.6	39.6	46.2	47.8	47.8	47.1	23.7	23.7	40.5	23.5	23.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	39.8	39.6	39.6	46.2	47.8	47.8	47.1	23.7	23.7	40.5	23.5	23.5
LOS by Move:	D	D	D	D	D	D	D	C	C	D	C	C
HCM2kAvgQ:	7	7	7	3	4	4	4	7	7	3	11	11

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
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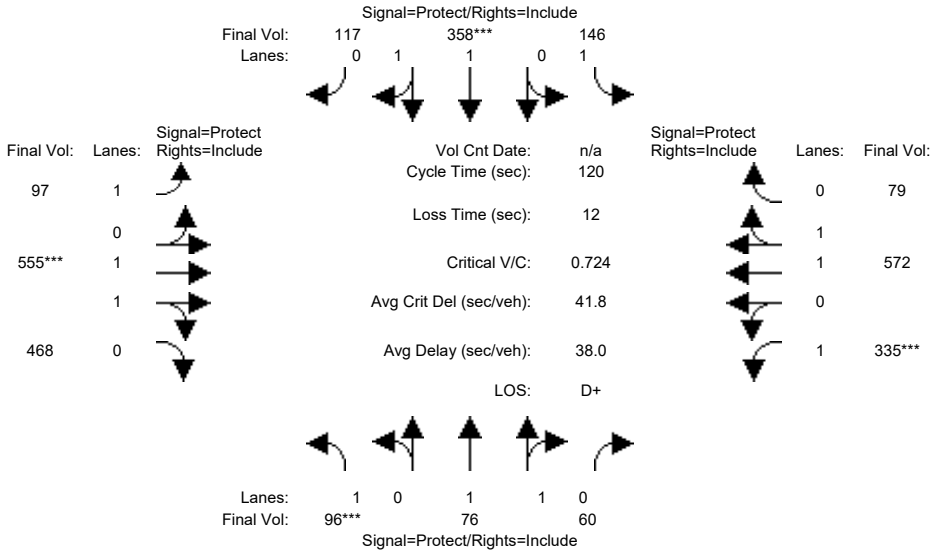
Intersection #11: Whisman Rd & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	94	76	60	146	358	115	95	550	466	335	565	79
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	94	76	60	146	358	115	95	550	466	335	565	79
Added Vol:	2	0	0	0	0	2	2	5	2	0	7	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	96	76	60	146	358	117	97	555	468	335	572	79
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	96	76	60	146	358	117	97	555	468	335	572	79
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	96	76	60	146	358	117	97	555	468	335	572	79
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	96	76	60	146	358	117	97	555	468	335	572	79
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.92	0.98	0.95	0.92	1.00	0.95	0.92	0.98	0.95
Lanes:	1.00	1.09	0.91	1.00	1.49	0.51	1.00	1.06	0.94	1.00	1.75	0.25
Final Sat.:	1750	2066	1631	1750	2788	911	1750	2006	1692	1750	3251	449
Capacity Analysis Module:												
Vol/Sat:	0.05	0.04	0.04	0.08	0.13	0.13	0.06	0.28	0.28	0.19	0.18	0.18
Crit Moves:	****				****			****			****	
Green Time:	9.1	15.2	15.2	15.2	21.3	21.3	19.3	45.9	45.9	31.7	58.3	58.3
Volume/Cap:	0.72	0.29	0.29	0.66	0.72	0.72	0.34	0.72	0.72	0.72	0.36	0.36
Delay/Veh:	72.0	47.9	47.9	57.0	50.6	50.6	45.4	33.5	33.5	45.7	19.4	19.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	72.0	47.9	47.9	57.0	50.6	50.6	45.4	33.5	33.5	45.7	19.4	19.4
LOS by Move:	E	D	D	E+	D	D	D	C-	C-	D	B-	B-
HCM2kAvgQ:	5	3	3	7	10	10	3	17	17	13	8	8

Note: Queue reported is the number of cars per lane.

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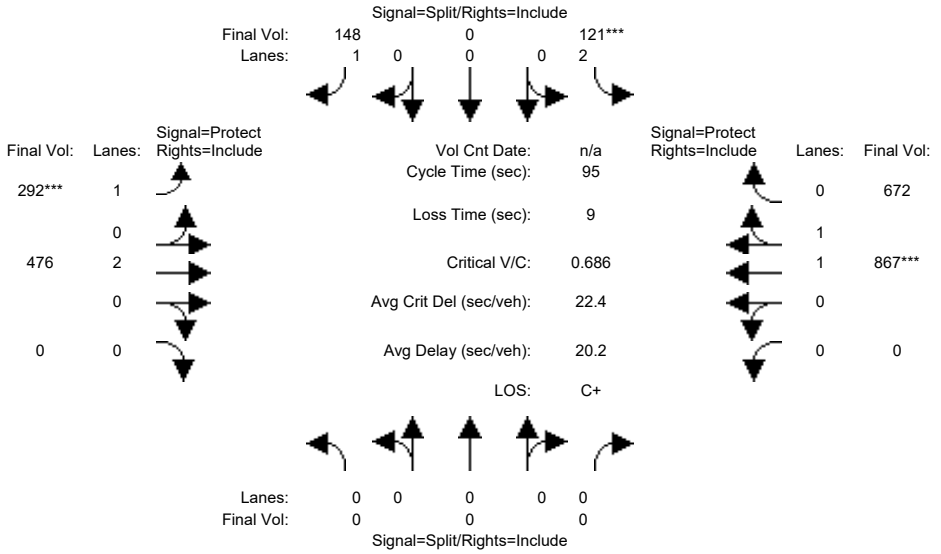
1001 N Shoreline Blvd Residential Development
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative AM

Intersection #12: Ellis St & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	0	0	10	0	10	7	10	0	0	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	0	0	121	0	148	292	476	0	0	867	672
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	121	0	148	292	476	0	0	867	672
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	121	0	148	292	476	0	0	867	672
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	121	0	148	292	476	0	0	867	672
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	121	0	148	292	476	0	0	867	672
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	0	121	0	148	292	476	0	0	867	672
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.92	0.99	0.95
Lanes:	0.00	0.00	0.00	2.00	0.00	1.00	1.00	2.00	0.00	0.00	1.10	0.90
Final Sat.:	0	0	0	3150	0	1750	1750	3800	0	0	2083	1615
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.04	0.00	0.08	0.17	0.13	0.00	0.00	0.42	0.42
Crit Moves:				****			****				****	
Green Time:	0.0	0.0	0.0	11.7	0.0	11.7	21.3	74.3	0.0	0.0	53.0	53.0
Volume/Cap:	0.00	0.00	0.00	0.31	0.00	0.69	0.75	0.16	0.00	0.00	0.75	0.75
Delay/Veh:	0.0	0.0	0.0	38.4	0.0	48.8	42.0	2.6	0.0	0.0	17.4	17.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	0.0	0.0	38.4	0.0	48.8	42.0	2.6	0.0	0.0	17.4	17.4
LOS by Move:	A	A	A	D+	A	D	D	A	A	A	B	B
HCM2kAvgQ:	0	0	0	2	0	6	10	2	0	0	19	19

Note: Queue reported is the number of cars per lane.

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Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
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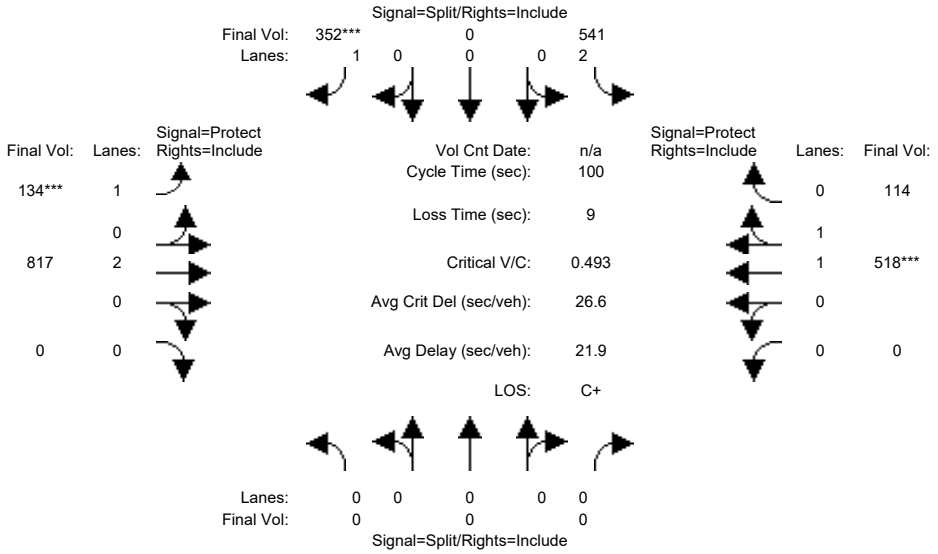
Cumulative PM

Intersection #12: Ellis St & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	0	0	10	0	10	7	10	0	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	0	0	541	0	352	134	817	0	0	518	114
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	541	0	352	134	817	0	0	518	114
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	541	0	352	134	817	0	0	518	114
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	541	0	352	134	817	0	0	518	114
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	541	0	352	134	817	0	0	518	114
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	0	541	0	352	134	817	0	0	518	114
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.92	0.98	0.95
Lanes:	0.00	0.00	0.00	2.00	0.00	1.00	1.00	2.00	0.00	0.00	1.63	0.37
Final Sat.:	0	0	0	3150	0	1750	1750	3800	0	0	3032	667
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.17	0.00	0.20	0.08	0.22	0.00	0.00	0.17	0.17
Crit Moves:						****	****				****	
Green Time:	0.0	0.0	0.0	40.8	0.0	40.8	15.5	50.2	0.0	0.0	34.7	34.7
Volume/Cap:	0.00	0.00	0.00	0.42	0.00	0.49	0.49	0.43	0.00	0.00	0.49	0.49
Delay/Veh:	0.0	0.0	0.0	21.4	0.0	22.5	40.0	16.0	0.0	0.0	26.0	26.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	0.0	0.0	21.4	0.0	22.5	40.0	16.0	0.0	0.0	26.0	26.0
LOS by Move:	A	A	A	C+	A	C+	D	B	A	A	C	C
HCM2kAvgQ:	0	0	0	7	0	9	5	8	0	0	8	8

Note: Queue reported is the number of cars per lane.

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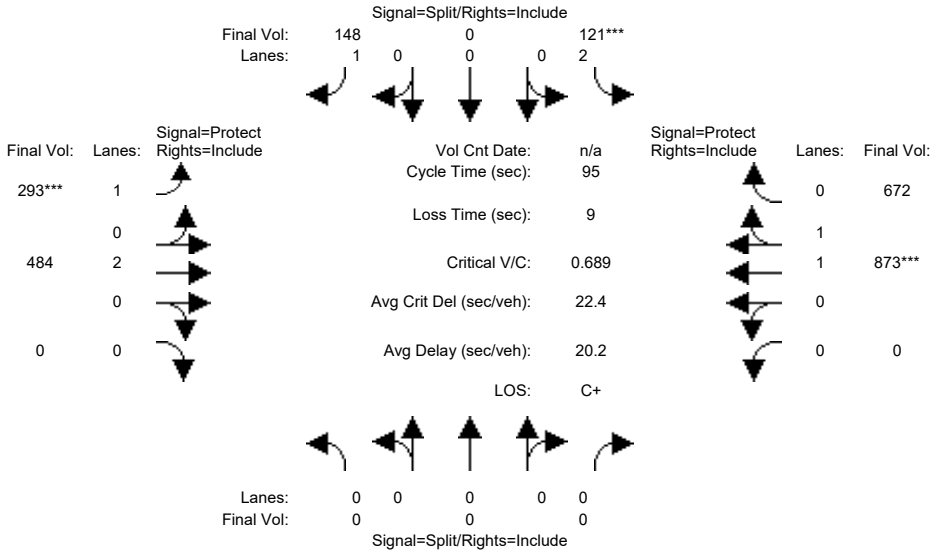
Mountain View, CA
Hexagon Transportation Consultants, Inc.

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumul+Proj AM

Intersection #12: Ellis St & Middlefield Rd



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	0	0	10	0	10	7	10	0	0	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	0	0	121	0	148	292	476	0	0	867	672
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	121	0	148	292	476	0	0	867	672
Added Vol:	0	0	0	0	0	0	1	8	0	0	6	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	121	0	148	293	484	0	0	873	672
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	121	0	148	293	484	0	0	873	672
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	121	0	148	293	484	0	0	873	672
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	0	121	0	148	293	484	0	0	873	672
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.92	0.99	0.95
Lanes:	0.00	0.00	0.00	2.00	0.00	1.00	1.00	2.00	0.00	0.00	1.11	0.89
Final Sat.:	0	0	0	3150	0	1750	1750	3800	0	0	2089	1608
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.04	0.00	0.08	0.17	0.13	0.00	0.00	0.42	0.42
Crit Moves:				****			****				****	
Green Time:	0.0	0.0	0.0	11.7	0.0	11.7	21.3	74.3	0.0	0.0	53.1	53.1
Volume/Cap:	0.00	0.00	0.00	0.31	0.00	0.69	0.75	0.16	0.00	0.00	0.75	0.75
Delay/Veh:	0.0	0.0	0.0	38.5	0.0	49.0	42.1	2.6	0.0	0.0	17.4	17.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	0.0	0.0	38.5	0.0	49.0	42.1	2.6	0.0	0.0	17.4	17.4
LOS by Move:	A	A	A	D+	A	D	D	A	A	A	B	B
HCM2kAvgQ:	0	0	0	2	0	6	10	2	0	0	19	19

Note: Queue reported is the number of cars per lane.

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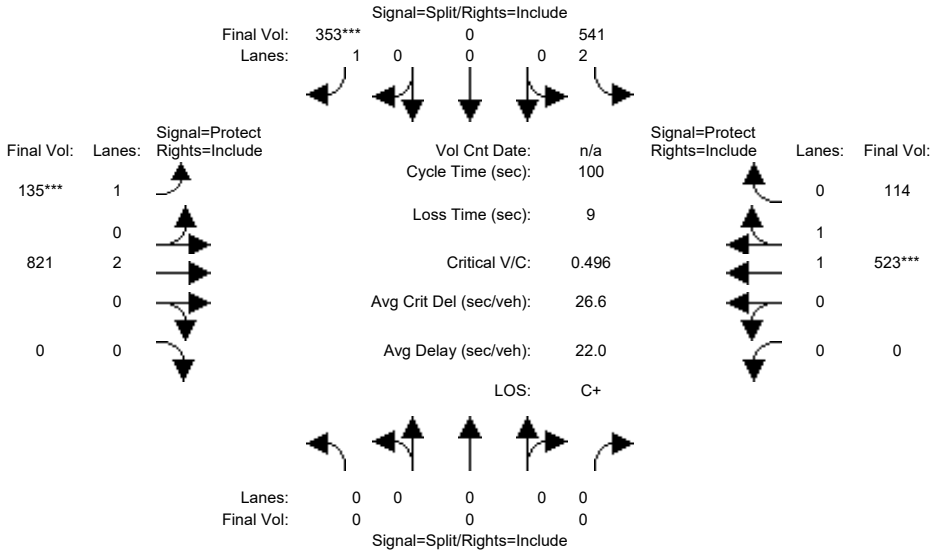

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	0	0	10	0	10	7	10	0	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	0	0	541	0	352	134	817	0	0	518	114
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	541	0	352	134	817	0	0	518	114
Added Vol:	0	0	0	0	0	1	1	4	0	0	5	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	541	0	353	135	821	0	0	523	114
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	541	0	353	135	821	0	0	523	114
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	541	0	353	135	821	0	0	523	114
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	0	541	0	353	135	821	0	0	523	114
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.92	0.98	0.95
Lanes:	0.00	0.00	0.00	2.00	0.00	1.00	1.00	2.00	0.00	0.00	1.63	0.37
Final Sat.:	0	0	0	3150	0	1750	1750	3800	0	0	3037	662
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.17	0.00	0.20	0.08	0.22	0.00	0.00	0.17	0.17
Crit Moves:						****	****				****	
Green Time:	0.0	0.0	0.0	40.7	0.0	40.7	15.6	50.3	0.0	0.0	34.7	34.7
Volume/Cap:	0.00	0.00	0.00	0.42	0.00	0.50	0.50	0.43	0.00	0.00	0.50	0.50
Delay/Veh:	0.0	0.0	0.0	21.5	0.0	22.6	40.0	15.9	0.0	0.0	26.0	26.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	0.0	0.0	21.5	0.0	22.6	40.0	15.9	0.0	0.0	26.0	26.0
LOS by Move:	A	A	A	C+	A	C+	D	B	A	A	C	C
HCM2kAvgQ:	0	0	0	7	0	9	5	8	0	0	8	8

Note: Queue reported is the number of cars per lane.

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Appendix D

Approved Project List

1001 N. Shoreline Blvd. Project

Background Projects for Traffic Analysis (Unoccupied Entitled Projects)

Address	Applicant	Project Description	Status
500 FERGUSON DRIVE	EFL Development	394 apartments; 3,000 square feet or commercial	Under Construction
100 AND 420-430 FERGUSON DRIVE	Pulte Homes	198-unit rowhouse development	Approximately 75% occupied
PACIFIC DR.	Summer Hill Homes	16 small-lot single-family homes	Occupied
580 – 620 CLYDE AVENUE	Renault & Handley	Rezone; 178,477 square feet of office	Building Permit Application under review
369 N. WHISMAN RD.	Whisman Associates, LLC	180,773 square feet of office	On hold; entitlements vested through September 2021
450 N. WHISMAN DR., MOUNTAIN VIEW	Summer Hill Homes	37-unit rowhouse development	Under Construction
277 FAIRCHILD DR.	Warmington Residential	22-unit rowhouse development	Building Permit Application under review
186 EAST MIDDLEFIELD RD.	DeNardi Homes	8-unit condominium project	Building Permit Application under review
133-149 FAIRCHILD DR.	Dividend Homes	35-unit rowhouse development	Occupied
660 TYRELLA AVENUE	Taylor Morrison Homes	37-unit rowhouse development	Under Construction
750 MOFFETT BOULEVARD	Broadreach Capital Partners	255-room hotel and 200,000 square feet of office	Under Construction
1001 N. SHORELINE BOULEVARD (same as project site)	Calvano/CPR Mountain View Venture	111,443 square feet of office	Occupied
647 Sierra Vista Ave	Classic Communities	29-unit rowhouse development	Under Construction
410-414 SIERRA VISTA AVENUE	The DeNardi Group	14-unit rowhouse development	Approved/Entitled
1968 HACKETT AVENUE & 208-210 SIERRA VISTA AVENUE	Dividend Homes	24-unit rowhouse development	Under Construction
1998-2024 MONTECITO AVENUE	Stuart Welte (Architect)	17-unit condominium development	Under Construction

Updated 8/30/2018

2025 AND 2065 SAN LUIS AVENUE	California Communities/Peninsula Communities	33-unit rowhouse development	Under Construction
333 North Rengstorff Avenue	Summer Hill Homes	31-unit rowhouse development	Approved and Under Building Permit Review
908 N. RENGSTORFF AVE	Windsor Academy	8,088-square-foot, 84 child daycare center	Occupied
1045-1085 LA AVENIDA STREET	Microsoft	128,000 square foot addition to the existing 515,000 square feet of office	Under Construction
1625 NORTH SHORELINE BOULEVARD	Shashi Hotel	104,750 square foot, 200-room hotel	Under Construction
1625 PLYMOUTH STREET	Broadreach Capital Partners	224,505 square feet of office	Occupied
2000 NORTH SHORELINE BOULEVARD	Google Inc.	595,000 square feet of office	Under Construction
870 LEONG DR.	Temple Hospitality	41,039 square foot, 78-room hotel	Approved
1075 TERRA BELLA	Calvano Development	19,301 square feet of office	Approved
1185 Terra Bella Avenue	Terra Bella, LLC	9,700 square feet of office	Approved
NASA Research Park	Google Inc.	1.1 million square feet of office	Approved and Under Construction
460 NORTH SHORELINE BOULEVARD	Mid-Pen Housing	demolish 12 affordable townhouse units and replace them with 62 affordable units	Approved/Building Permits Under Review
2044 AND 2054 MONTECITO AVENUE	Summer Hill Homes	52-unit rowhouse development	Approved. Under Building Permit Review
2019 LEGHORN STREET	McKim Design Group	12,050 square-feet of office	Approved/Entitled
535 & 555 Walker Drive	SummerHill Homes	Demolition of 2 units and construction of 58-unit rowhouse development	Approved
257-265 Calderon Ave.	SummerHill Homes	Demolition of 7 existing units and construction of 16-unit rowhouse development	Approved

Cumulative Project List for Traffic Analysis (Entitlement Under Review)

Address	Applicant	Project Description	Status
700 AND 800 E. MIDDLEFIELD ROAD AND 1100 W. MAUDE AVENUE	LinkedIn	Rezone; 1.08 million square feet office [468Ksf = existing bldgs. that are occupied and will remain; 612Ksf = cumulative pending project (EIR being prepared now)]	Planning Review
555 WEST MIDDLEFIELD ROAD	AvalonBay Communities	Rezone; 341-unit addition to an existing 402-unit residential development	Planning Review
777 WEST MIDDLEFIELD ROAD	Fortbay	Rezone; demolition of 208 existing apartment units and construction of 711 new apartment units	Planning Review
1255 PEAR AVENUE,	The Sobrato Organization	650 residential units; 234,247 square feet of new office uses, demolish a total of 103,513 square foot of industrial-office buildings across the site	Planning Review
828 and 836 Sierra Vista Ave.	D&C Development	20-unit rowhouse development	Planning Review
315 & 319 Sierra Vista Ave.	Classic Communities	Demolition of 7 units and construction of 15-unit rowhouse development	Planning Review
2005 Rock Street	Dividend Homes	15 units	Planning Review
759 W. Middlefield Ave.	Prometheus	75 apartment units	Planning Review
1696-1758 Villa Street	Prometheus	Demolition of 16 existing units and construction of 226 apartment units	Planning Review
360 S. Shoreline Blvd.	Mountain View Academy	7 staff apartment units	Planning Review
303 Ravendale Drive	Sand Hill Property	181,000 square foot office	Informal Planning Review

Updated 8/30/2018

355-415 East Middlefield Road	SummerHill Homes	448 new housing units	Informal Planning Review
189 N Bernardo Avenue	Sand Hill Property	86,160 square foot office building to replace an existing 58,400 square foot office building	Informal Planning Review
465 Fairchild Drive	The Sobrato Organization	259,595 square foot office building	Informal Planning Review

HEXAGON TRANSPORTATION CONSULTANTS, INC.

July 10, 2019

Ms. Elizabeth Kanner
Environmental Science Associates
180 Grand Avenue, Suite 1050
Oakland, CA 94612

Re: Analysis of Vehicle Miles Travelled (VMT) for the Proposed Residential Development at 1001 North Shoreline Boulevard in Mountain View, California

Dear Ms. Kanner,

Hexagon Transportation Consultants, Inc. has completed an analysis of vehicle miles travelled (VMT) for the proposed residential development at 1001 North Shoreline Boulevard in Mountain View, California. The proposed residential project is Phase II of a 7.81-acre mixed-use development. Phase I, which is currently fully occupied, contains a 111,443 square foot (s.f.) office building. Phase II would construct 203 apartments, 100 condominiums and 3,000 s.f. of ground-floor retail space. This memorandum presents background information about the new California Environmental Quality Act (CEQA) guidelines regarding VMT and a comparison of the average VMT per capita in the project vicinity versus the average VMT per capita for the City of Mountain View and for Santa Clara County.

Background

Per California Senate Bill 743, the California Natural Resources Agency, with assistance from the Governor's Office of Planning and Research (OPR), adopted new CEQA guidelines in December 2018. The new guidelines state that automobile delay as described solely by level of service (or similar measures of vehicular capacity or traffic congestion) will no longer be an environmental impact under CEQA, and that vehicle-miles-travelled (VMT) is considered the most appropriate measure of transportation impact. The legislation is intended to promote infill development, a diversity of land uses, transit, active transportation modes while reducing greenhouse gas emissions. OPR recommends the following threshold for residential projects:

> *"A proposed project exceeding a level of 15 percent below existing VMT per capita may indicate a significant transportation impact. Existing VMT per capita may be measured as regional VMT per capita or a city VMT per capita."*

Notwithstanding OPR's recommended threshold, lead agencies have the discretion to choose the VMT analysis methodology and to set or apply their own thresholds of significance. Cities have until July 2020 to adopt the new procedures and thresholds related to VMT. The City of Mountain View has not yet adopted any analysis procedures, standards, or guidelines related to VMT. Therefore, the DEIR for the proposed residential development at 1001 North Shoreline Boulevard evaluates traffic impacts based on level of service. However, an analysis of VMT for this project is presented for informational purposes only to aid decision makers during this transition period from LOS to VMT. It is not intended to provide any indication of the transportation impacts of the project under SB 743.

The City of Mountain View recently published the *East Whisman Precise Plan DEIR*, which used the Mountain View model to evaluate the Precise Plan's effect on VMT within the Plan Area and citywide. However, the Mountain View model is not intended to evaluate VMT associated with specific development projects. While the Santa Clara Valley Transportation Authority (VTA) is in the process of developing a VMT analysis tool and in anticipation of the City potentially developing their own tool to estimate VMT for development projects, the Metropolitan Transportation Commission (MTC) is currently the best source to obtain VMT data for areas within the nine counties of the San Francisco Bay Area.

MTC Simulated VMT by Place of Residence

The simulated VMT by place of residence for the Year 2020 was obtained from MTC's website[1] and was used to calculate the average VMT per capita for (a) the traffic analysis zone (TAZ) in which the project is located, (b) the City of Mountain View, and (c) Santa Clara County. Figure 1 (attached) visually depicts the average VMT per capita in Santa Clara County by TAZ. Table 1 (attached) presents the same information in tabular format.

The VMT per capita for the project area was compared with the City and the County average VMT per capita. As stated previously, the City of Mountain View has not adopted any impact thresholds related to VMT, so this comparison is provided for informational purposes only. The TAZ containing the proposed project (TAZ 377) is estimated to have an average VMT per capita of 16.13, which is greater than the average VMT per capita for both the City of Mountain View (14.37) and Santa Clara County (15.11). As shown on Figure 1, the lowest VMT areas in Santa Clara County are located in downtown San Jose, while the North Bayshore, Crossings, and Shoreline West neighborhoods have the lowest VMT in the City of Mountain View.

While the MTC model provides the average VMT per capita for the project's zone, that does not mean that the project's VMT per capita would match that of the project's zone. VMT for a specific project is affected by a number of factors including location, development density, land use diversity, multimodal infrastructure, parking policies/pricing, and TDM programs. It should be noted that the VMT data obtained from MTC reflects the average VMT per capita for the TAZ in which the project is located but does not reflect the precise location of the proposed project.

Project VMT Estimates

The project is located immediately south of US 101, which is the boundary between TAZ 377 and TAZ 401. TAZ 401 represents the portion of Mountain View north of US 101, otherwise known as the North Bayshore area. The average VMT per capita in the North Bayshore area (12.82) is substantially less than the average VMT per capita for TAZ 377 (16.13). Thus, compared to other parcels within TAZ 377, the project is expected to have a lower than average VMT per resident due to its proximity to the North Bayshore employment area. Furthermore, the project is located immediately adjacent to multiple transit routes and bike lanes on N. Shoreline Boulevard. The

[1] https://mtc.maps.arcgis.com/home/webmap/viewer.html?webmap=0a94dfbf14824945a84bbd130475d262 accessed on June 25, 2019. Simulated vehicle miles traveled, per capita, by place of residence for Year 2020. Simulation was conducted as part of the planning process related to Plan Bay Area 2040 and the associated Regional Transportation Plan, both of which were produced in 2017.

project site's accessibility via transit and bike would also result in a lower than average VMT compared to other parcels within TAZ 377.

The City of San Jose has developed a VMT evaluation tool to quantify the average VMT per capita for specific development projects. San Jose's VMT tool uses data from the VTA model to estimate the average VMT per capita for the project site and then estimates the effect of specific characteristics of the proposed project on VMT. Currently, the City of Mountain View does not have any tools available to estimate the average VMT by parcel within a TAZ. However, the San Jose VMT tool was used to estimate the effect of the project's density on VMT. The project is expected to increase the residential density of TAZ 377 by approximately 12 percent. The increase in development density is estimated to result in a five percent reduction in VMT. [2]

Reductions in vehicle trips and VMT are also expected due to the mixed-use nature of the project. The project will add residential and retail uses on a site that is currently occupied entirely by office use. Based on VTA's *Transportation Impact Analysis Guidelines*, 2014, a mixed-use site containing housing and employment could reduce residential trips by up to three percent. Likewise, a mixed-use site containing housing and retail could reduce residential trips by up to 15 percent. The retail trip reductions may vary depending upon the specific tenant. Reductions in VMT may not equal the trip reductions because trip lengths vary by purpose. Nevertheless, internal (captured) trips are expected to result in a reduction in the project's VMT.

Furthermore, the project will implement a Transportation Demand Management Plan with a combination of services, incentives, facilities, and actions that reduce single–occupant vehicle trips to help relieve traffic congestion, parking demand, and air pollution problems. The TDM Plan has not yet been finalized so the potential reduction in VMT due to TDM is uncertain and has not been quantified.

Due to the project's proximity to the North Bayshore employment area, the transit routes and bike lanes immediately adjacent the project site on N. Shoreline Boulevard, the project's development density, and the mix of land uses on the project site, the project is expected to result in an average VMT per capita between 11.9 and 14.0, which is lower than the citywide average VMT per capita (14.37). Thus, the project would help the City reduce the citywide average VMT per capita.

Please feel free to contact me if there are any questions.

Sincerely,

HEXAGON TRANSPORTATION CONSULTANTS, INC.

Michelle Hunt
Vice President and Principal Associate

[2] Holtzclaw, et al. 2002. "Location Efficiency: Neighborhood and Socioeconomic Characteristics Determine Auto Ownership and Use – Studies in San Francisco, Los Angeles, and Chicago." Transportation Planning and Technology, Vol. 25, pp. 1-27.

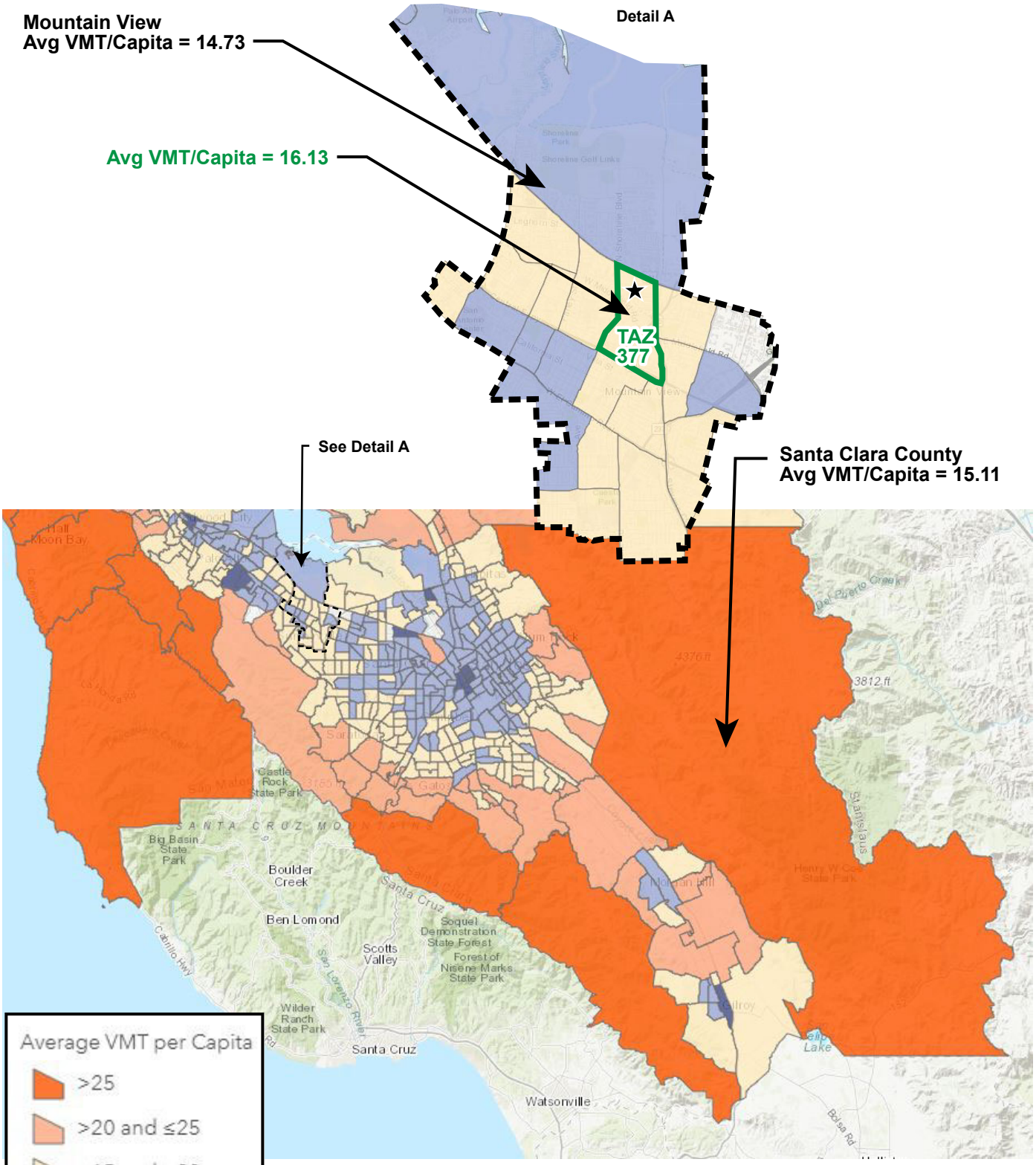

Figure 1
Year 2020 Simulated VMT by Place of Residence
(Plan Bay Area 2040)

Table 1
Year 2020 Simulated VMT by Place of Residence (Plan Bay Area 2040)

TAZ	Population	VMT	Average VMT per Capita
365	3,698	59,246	16.02
372	9,856	127,478	12.93
373	2,920	47,117	16.14
374	3,482	52,919	15.20
375	4,692	74,837	15.95
376	4,524	71,950	15.90
377	5,392	86,968	16.13
378	3,412	51,668	15.14
379	6,648	95,798	14.41
380	5,430	78,670	14.49
381	6,112	87,866	14.38
382	2,660	41,677	15.67
383	2,018	30,793	15.26
389	4,934	80,247	16.26
390	3,290	51,442	15.64
391	7,054	118,606	16.81
397	5,500	71,693	13.04
398	3,108	52,581	16.92
399	0	0	0.00
400	4,604	79,681	17.31
401	23,816	305,416	12.82
1001 Shoreline = TAZ 377	5,392	86,968	16.13
Mountain View	113,150	1,666,652	14.73
Santa Clara County TAZ=347-714	1,978,466	29,893,726	15.11

Appendix L
Utility Impact Study

The Residences @ Shoreline Gateway
Utility Impact Study

Prepared for
Environmental Science Associates

and

City of Mountain View
500 Castro Street
Mountain View, CA 94041

CITY OF MOUNTAIN VIEW

DRAFT

LEIF M. COPONEN, California RCE No. 70139

August 23, 2019

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Executive Summary

Schaaf & Wheeler has been retained by Environmental Science Associates to determine impacts from The Residences @ Shoreline Gateway (Project) on the City of Mountain View's (City) potable water and sanitary sewer systems. The Project is the second phase of the mixed-used development located at 1001 North Shoreline Boulevard. The first phase approved in 2015 includes 111,443 square feet of office space and surface parking and was completed in 2018.

The Project site is located south of U.S. Highway 101 and bounded by North Shoreline Boulevard to the west, Linda Vista Avenue to the east, and Terra Bella Avenue to the south (Figure B-1). The Project proposes to construct two residential buildings and one parking structure for the office building built during the first phase of the mixed use development project.

Project impacts are analyzed for Existing (2010), Existing with Shoreline/101 CIP (2010), and Future Cumulative (2030) Conditions for the water system. Hydraulic models simulating pre- and post-Project development scenarios are performed to examine hydraulic deficiencies. The Existing Condition is based on the *2010 Water Master Plan* (WMP). The Existing with Shoreline/101 CIP Condition is also based on the 2010 WMP, but it includes a proposed Capital Improvement Project (CIP) crossing State Highway 101 near North Shoreline Boulevard based on City-provided plans from January 2018. The Future Cumulative Condition model is created from the *2030 General Plan – Updated Water System Modeling Alternative 1* (GP-UWSM Alt 1; Schaaf & Wheeler, November 2014) model. Within the North Bayshore Precise Plan boundary, the Future Cumulative Condition model is further updated based on the *North Bayshore Precise Plan Phase II Utility Impact Study* (NBPPII UIS; Schaaf & Wheeler, October 2016) model. The Future Cumulative Condition model includes CIPs from the NBPPII UIS and recent City approved projects not accounted for or in exceedance of the 2030 GPUUIS and GP-UWSM projections.

Project impacts to the sewer system are analyzed for Existing (2010), Existing with Shoreline/101 CIP (2010), and Future Cumulative (2030) Conditions. Hydraulic models simulating pre- and post-Project development scenarios are performed to examine hydraulic deficiencies. The Existing Condition is based on the *2010 Sewer Master Plan* (SMP). The Existing with Shoreline/101 CIP Condition is also based on the 2010 SMP, but it includes a proposed CIP crossing State Highway 101 near North Shoreline Boulevard based on City-provided plans from January 2018. The Future Cumulative Condition sewer model is created from the *General Plan Update Utility Impact Study* (GPUUIS; IEC, October 2011) model and includes all sewer system CIPs recommended in the GPUUIS. The Future Cumulative Condition includes recent City approved projects not accounted for or in exceedance of the 2030 GPUUIS projections.

Water System Project Impacts

The Project development does not significantly impact the water system at Existing or Existing with Shoreline/101 CIP Conditions. The Project also does not significantly impact the water system during Future Cumulative Condition assuming all the recommended CIPs in the GP-UWSM Alt 1 and NBPPII UIS have been constructed. The assumed Project-specific fire flow requirement of 3,500 gpm is met during Existing, Existing with Shoreline/101 CIP, and Future Cumulative Conditions. The Project fire flow requirement used in this analysis assumes a 50% reduction of the required fire flow will be approved by the City Fire Marshal based on

the installation of an approved automatic fire sprinkler system. This is a conservative reduction assumption, as buildings have the potential for a 75% reduction of the required fire flow according to the California Fire Code (2016), if approved. The actual fire flow requirement may change as the planning process continues and Project specific requirements are determined by the City Fire Marshal. If Project conditions require higher fire flow than what is analyzed, revised modeling should be conducted.

Sewer System Project Impacts

The sewer system has sufficient capacity in the Existing, Existing with Shoreline/101 CIP Condition, and Future Cumulative Conditions with the estimated increase in incremental flow. In the Future Cumulative Condition, three CIPs recommended in the 2030 GPUUIS are required to meet maximum flow depth to pipe diameter (d/D) performance criteria both pre- and post-Project. Project contribution to the recommended CIPs are determined and may be used to estimate developer impact fees for fair share impact to the system.

Chapter 1. Introduction

1.1. Project Description

The Residences at Shoreline Gateway (Project) is the second phase of a 7.81 acre mixed-use development at 1001 North Shoreline Boulevard. Phase I included 111,443 square feet of office space and surface parking and has been constructed.

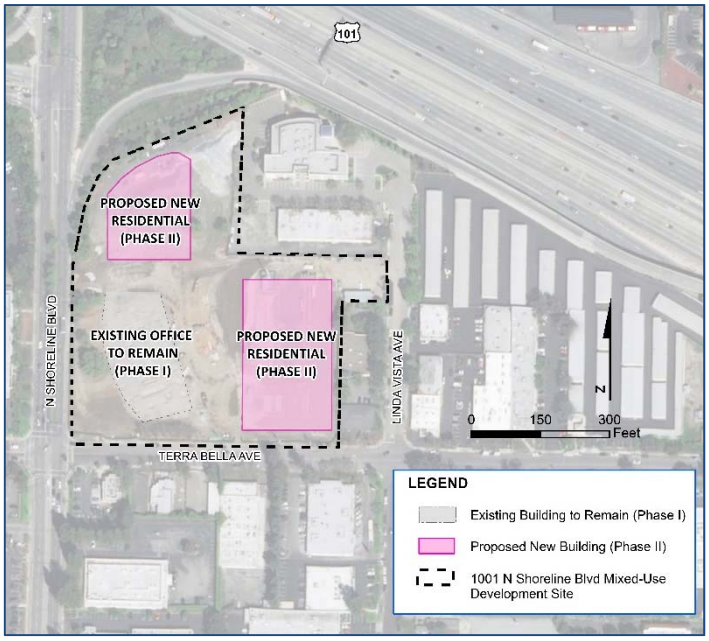

Figure 1: Proposed Site Layout (July 2018)

Phase II proposes two new residential buildings: a seven-story apartment building on the northwest corner of the Project lot containing 203 rental units and a seven-story building on the southeast corner of the lot with 100 condominimums (Figure 1). Both residential buildings will have two floors of podium parking below five stories of apartments or condominiums, respectively. The building with 203 apartment rental units will also have 3,000 square feet of retail. Additionally, the Project includes constructing a new 130,820 square foot parking structure for the office building constructed for Phase I.

The Project is currently zoned as limited industrial (ML) and general industrial (MM) and has a General Plan Designation of General Industrial. The Project is requesting a Zoning Map Amendment to change the existing zoning to P (Planned Community) and a General Plan Amendment to change the land use designation to Mixed-Use Center.

1.2. Water System Analysis Approach

Project impacts are analyzed using the City's water models for three conditions: Existing (2010), Existing with Shoreline/101 CIP (2010), and Future Cumulative (2030). As a baseline for system performance, each condition is evaluated pre-Project for existing hydraulic deficiencies. The estimated incremental water demand resulting from Project development is added to the model and post-Project deficiencies are examined. In total, six model simulations of the water system are performed, as shown in Figure 2.

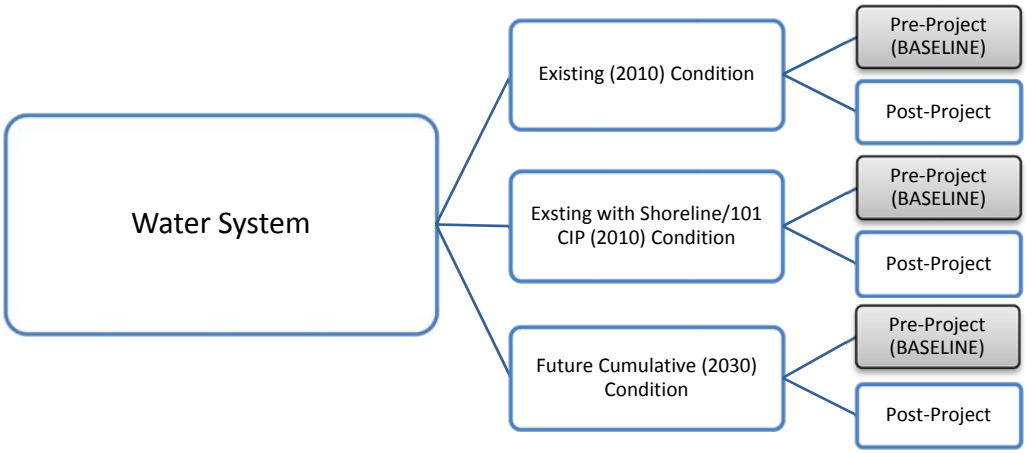

Figure 2. Water System Model Simulations

The Existing Condition model consists of the existing distribution system and operating parameters along with water demands based on existing land use from the *2010 Water Master Plan* (WMP). The Existing with Shoreline/101 CIP Condition also consists of the existing distribution system, operating parameters, and water demands from the 2010 WMP, but it includes a proposed Capital Improvement Project (CIP) crossing State Highway 101 near North Shoreline Boulevard (Figure 3). This CIP proposes a 16-inch diameter pipe from North Shoreline Boulevard through the Project site and across State Highway 101 as well as a 12-inch diameter pipe along La Avenida, Inigo Way, and Pear Avenue to North Shoreline Boulevard. This CIP is in the design stage but, based on discussions with the City, construction of the CIP may not coincide with Project construction.

The Future Cumulative Condition water demand is based on the 2030 General Plan Update (GPU) land use and has since been revised to include recent City approved projects not accounted for or in exceedance of the 2030 GPU projections. Table A-1 in Appendix A provides a list of the considered development projects for the Future Cumulative Condition. The Future Cumulative Condition model is based on the *2030 General Plan – Updated Water System Modeling Alternative 1* (GP-UWSM Alt 1; Schaaf & Wheeler, November 2014) model and assumes all of the recommended CIPs in the *North Bayshore Precise Plan Phase II Utility Impact Study* (NBPPII UIS; Schaaf & Wheeler, October 2016) have been constructed. The Future Cumulative Condition model also includes the CIP crossing State Highway 101 near North Shoreline Boulevard (Figure 3). The GP-UWSM Alt 1 updates the *General Plan Update Utility Impact Study* (GPUUIS; IEC, October 2011) with revisions to demands, network components, boundary conditions, fire flow requirements, and recommended CIPs. The NBPPII UIS updates some CIPs recommended in the GP-UWSM Alt 1 based on revised demand and fire flow requirements within the North Bayshore Precise Plan boundary.

It should be noted that should construction of the Shoreline/101 CIP occur after construction of the Project, the City will require adequate space for trenchless installation under State Highway 101. The Project Plan Set dated July 17, 2018, shows the pit for trenchless installation on Caltrans right-of-way, which may not be feasible. The City and the Project will need to address space requirements and site impacts should timing of the Project and the CIP not coincide.

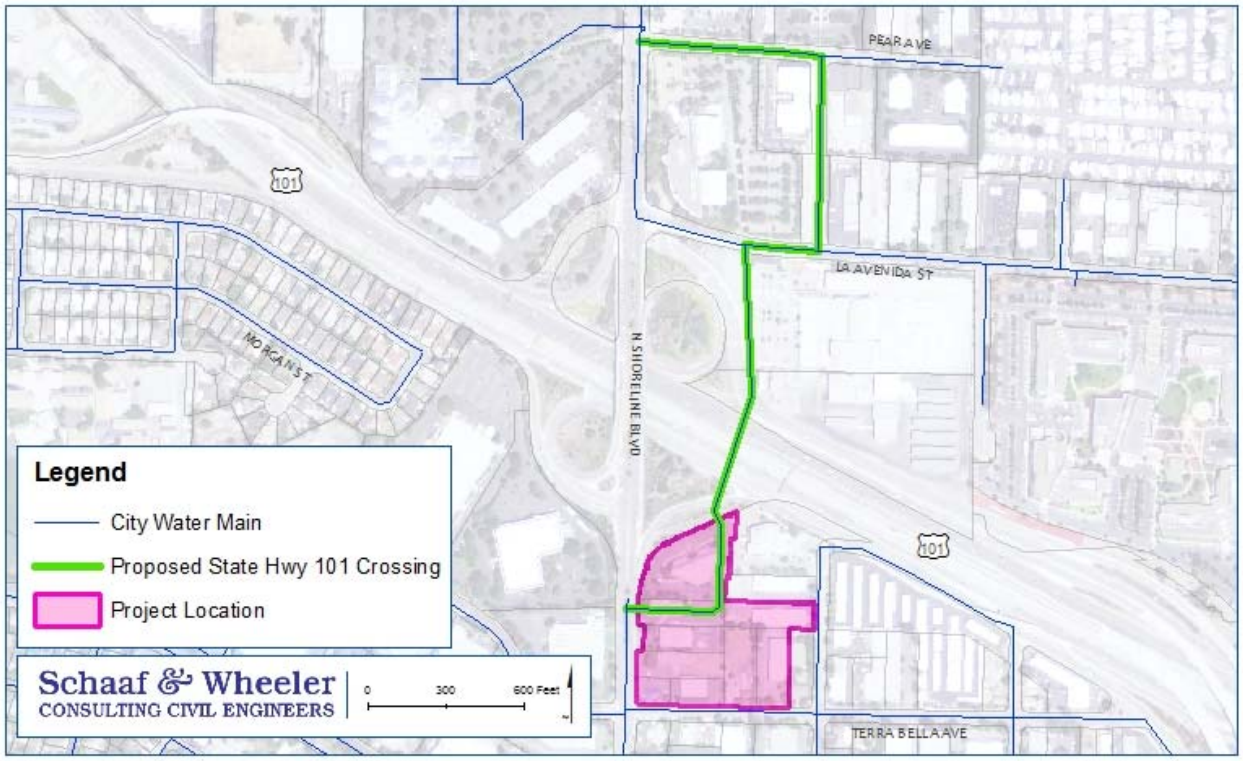

Figure 3: Proposed Hwy 101 Water Main Crossing

1.3. Sewer System Analysis Approach

Project impacts to the sewer system are analyzed using the City's sewer models for three conditions: Existing (2010), Existing with Shoreline/101 CIP (2010), and Future Cumulative (2030). As a baseline for system performance, each condition is evaluated pre-Project for existing hydraulic deficiencies. The estimated sewer flow resulting from Project development is added to the model and post-Project deficiencies are examined. In total, six model simulations of the sewer system are performed, as shown in Figure 4.

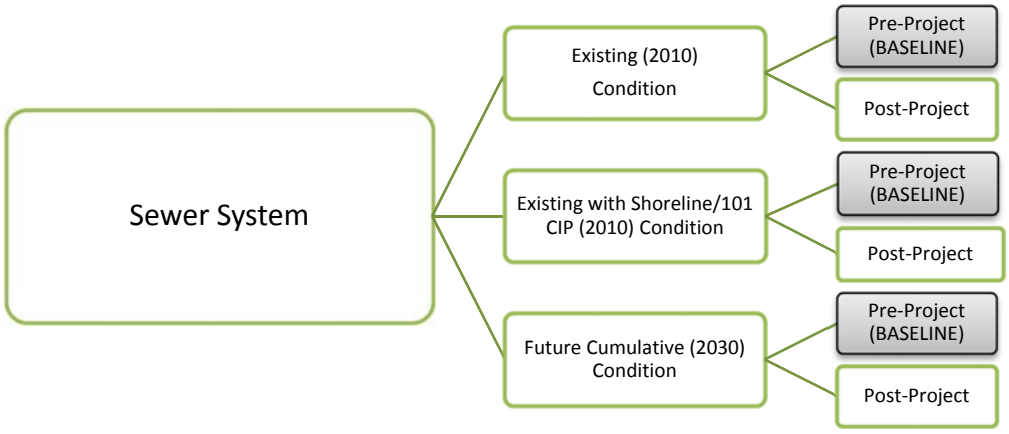

Figure 4. Sewer System Model Simulations

The Existing Condition model consists of the existing collection system and operating parameters along with from the *2010 Sewer Master Plan* (SMP). For this analysis, the Existing with Shoreline/101 CIP Condition consists of the Existing Condition model with one CIP added to the model that crosses State Highway 101 near North Shoreline Boulevard (Figure 5). This CIP proposes a 21-inch diameter from North Shoreline Boulevard through the Project site, across State Highway 101, and along La Avenida, Inigo Way, and Pear Avenue. This CIP is in the design stage but, based on discussions with the City, construction of the CIP may not coincide with Project construction.

The Future Cumulative Condition sewer flows are based on the 2030 GPU land use and have since been revised to include recent City approved projects not accounted for or in exceedance of the 2030 GPU projections. Table A-1 in Appendix A provides a list of the considered development projects for the Future Cumulative Condition. The Future Cumulative Condition includes the operating parameters in the 2030 GPUUIS model and assumes that all sewer system CIPs in the 2030 GPUUIS have been constructed.

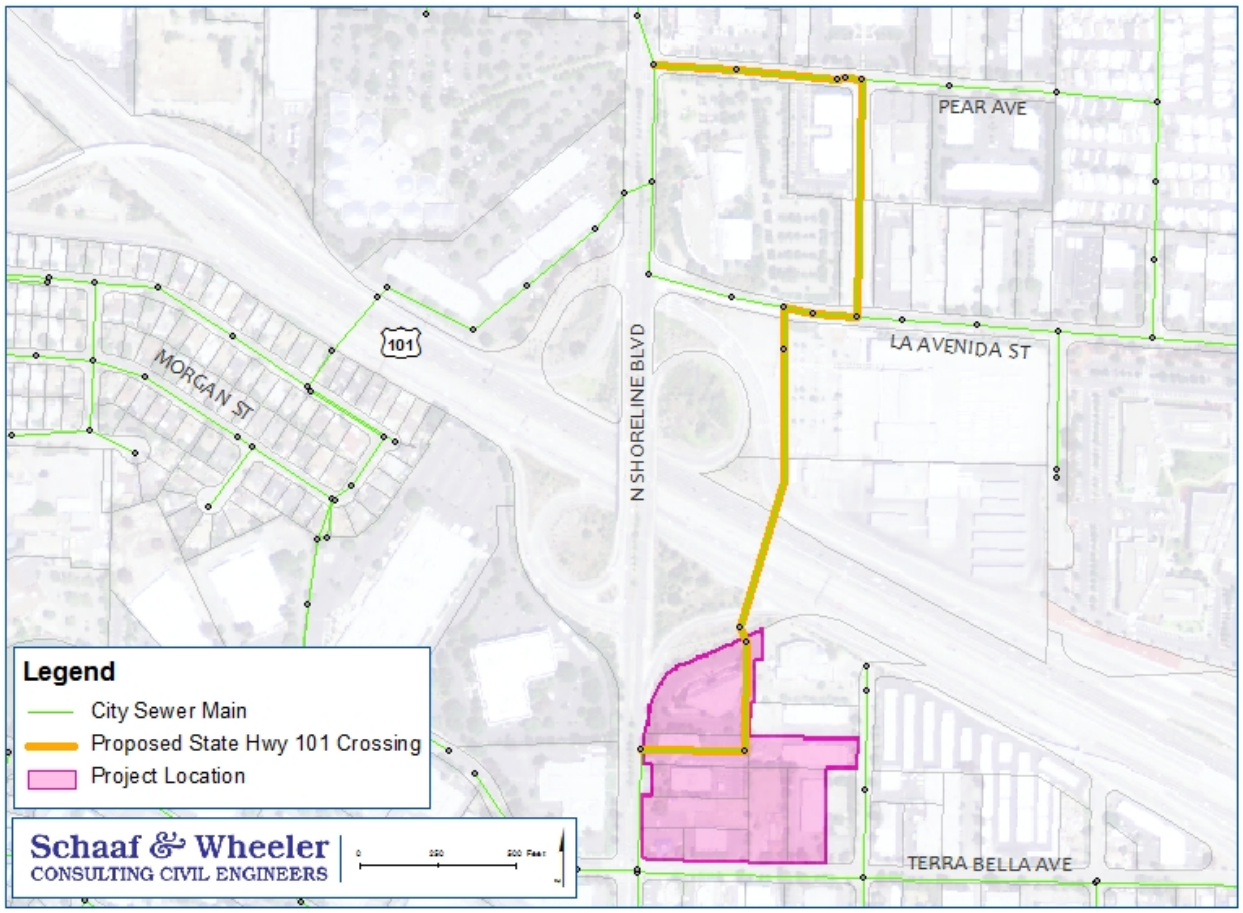

Figure 5. Proposed Hwy 101 Sewer Main Crossing

1.4. Report Organization

This report is organized into the following five sections. Chapter 2 discusses the water demand estimates for the Project. Chapter 3 covers the impacts and capital improvement recommendations for the water system. Chapter 4 discusses the sewer flow estimates. Chapter 5 covers the capital improvements recommendations for the sewer system.

Chapter 2. Demand Projections

This chapter discusses the estimated water demand and required fire flow for the Project development. Water demand in this section represents Average Daily Demand (ADD). The ADD is an estimated daily average of water use patterns that varies by season and customer type.

Because the Project is the second phase of the multi-use development project at 1001 North Shoreline Boulevard, Project impact is evaluated by adding the estimated Project demand to the pre-Project baseline demand. The pre-Project baseline demand at the Project parcels is taken as the Phase I office building demand based on the *1001 North Shoreline Utility Impact Study* (NS UIS; Schaaf & Wheeler, April 2015).

The water unit duty factor for estimating Project demand is taken from previous technical studies to remain consistent with the City-wide demand projections used in the hydraulic models.

2.1. Project Water Demand

Project water demand is estimated from the proposed number of residential units the retail square footage provided in Project Plan Set dated July 17, 2018, and water unit duty factors developed for the City as part of the *North Bayshore Precise Plan Phase II Utility Impact Study* (NBPPII UIS; Schaaf & Wheeler, October 2016). These duty factors are based on recent water meter data, collected between 2005 and 2015, of recent developments throughout the City. Table 2-1 provides the demand estimation for each building.

Table 2-1: Project Water Demand

Building	Units	Area (sf)	Land Use Type	Water Duty Factor (gpd/unit or gpd/1000 sf)	Water Demand (gpd)
Apartments	203		Multi-Family Residential	100	20,300
Apartments		3,000	Retail	130	390
Apartments Subtotal	*203*	*3,000*	-	-	*20,690*
Condominiums	100		Multi-Family Residential	100	10,000
Total	***303***	***3,000***	**-**	**-**	***30,690***

2.1.1. Project Required Fire Flow

The anticipated fire flow requirement at the site is based on the 2016 California Fire Code (CFC) Appendix B, which gives the minimum fire flow requirement based on fire-flow area and building construction type. Building specific fire flow requirements based on the CFC are presented in Table 2-2. Based on the California State Fire Marshal Code Interpretation 11-015 for mixed use construction, the fire flow requirement for the apartment and condominium buildings is estimated using a percentage approach between the Type III-A construction proposed for the multi-family levels and the Type I-A construction proposed for the podium parking garage. The fire flow requirement for the new office garage is based on the area of the three largest floors of the garage per CFC Section B104.3.

The highest fire flow in Table 2-2 is considered as the controlling fire flow rate at the site and includes the Phase I office building on the Project lot. A 50 percent reduction of the identified controlling fire flow rate is used as the project-specific fire flow requirement in this evaluation. This is a conservative assumption since a 75 percent reduction is allowed upon approval of an approved automatic sprinkler system according to CFC Section B105.2. The actual fire flow requirement may change as the planning process continues and Project specific requirements are determined by the City Fire Marshal.

Table 2-2 – Anticipated Project Fire Flow (FF) Requirement

Building	Occupancy Use	Fire-Flow Calculation Area (Square Feet)	Building Construction Type	CFC Required FF (gpm)	FF with 50% Reduction (gpm)	FF with 75% Reduction (gpm)
Office[1]	Office	111,443	II-B	7,000	3,500	1,750
Apartments	Residential	390,620	III-A/I-A	6,000	3,000	1,500
Condominiums	Residential	203,150	III-A/I-A	5,690	2,845	1,500[2]
Office Garage	Garage	69,300	I-A	2,750	1,500[2]	1,500[2]

[1]Based on 1001 North Shoreline Utility Impact Study (Schaaf & Wheeler, April 2015)

[2]Minimum allowed reduction is 1,500 gpm per 2016 CFC

2.2. Existing Condition (2010)

2.2.1. Pre-Project (Baseline) Land Use and Demand

The pre-Project (baseline) condition for the Project parcels represents the demand from the office building constructed as part of Phase I. Outside of the Project area, the pre-Project condition includes parcel-level demand adopted from the City's InfoWATER model, developed as part of the 2010 WMP. The demand in the model is calibrated against water billing records from 2005 and 2006, as further explained in the 2010 WMP. Table 2-3 details the model demand at the parcels.

Table 2-3: Baseline Demand for Existing Condition

Address	APN	Current Land Use	Acreage	Water Demand (gpd)
1001 N Shoreline Blvd	-	High-Intensity Office/R&D	7.81	23,400
Total	**-**	**-**	***7.81***	***23,400***

2.2.2. Post-Project Demand

For the Project impact analysis, Project demand is added to the Existing Condition model. Because the office constructed as Phase I of the mixed-use development is not going to be removed as part of the Project, pre-Project demands are assumed to remain and Project demands are added to the pre-Project demands. The total post-Project demand in the Existing Condition is given in Table 2-4.

Table 2-4: Post-Project Demand for Existing Condition

	Water Demand (gpd)
Pre-Project (Baseline) Demand	23,400
Project Demand	30,690
Total Post-Project Demand	***54,090***

2.3. Existing with Shoreline/101 CIP Condition (2010)

2.3.1. Pre-Project (Baseline) Land Use and Demand

As with the Existing Condition, the pre-Project (baseline) condition for the Project parcels represents the demand from the office building constructed as part of Phase I. Outside of the Project area, the pre-Project condition includes parcel-level demand adopted from the City's InfoWATER model, developed as part of the 2010 WMP. The demand in the model is calibrated against water billing records from 2005 and 2006, as further explained in the 2010 WMP. Table 2-5 details the model demand at the parcels.

Table 2-5: Baseline Demand for Existing with Shoreline/101 CIP Condition

Address	APN	Current Land Use	Acreage	Water Demand (gpd)
1001 N Shoreline Blvd	-	High-Intensity Office/R&D	7.81	23,400
Total	**-**	**-**	***7.81***	***23,400***

2.3.2. Post-Project Demand

For the Project impact analysis, Project demand is added to the Existing with Shoreline/101 CIP Condition model. Because the office constructed as Phase I of the mixed-use development is not going to be removed as part of the Project, pre-Project demands are assumed to remain and Project demands are added to the pre-Project demands. The total post-Project demand in the Existing with Shoreline/101 CIP Condition is given in Table 2-6.

Table 2-6: Post-Project Demand for Existing with Shoreline/101 CIP Condition

	Water Demand (gpd)
Pre-Project (Baseline) Demand	23,400
Project Demand	30,690
Total Post-Project Demand	***54,090***

2.4. Future Cumulative Condition (2030)

2.4.1. Pre-Project (Baseline) Land Use and Demand

The pre-Project (baseline) condition for the Project parcels represents the demand from the office building constructed as part of Phase I. Outside of the Project parcels, Future Cumulative (baseline) demand is adopted from the City's InfoWater model, developed as part of the 2030 GPUUIS and has since been updated to include recent City approved projects outlined in Table A-1 in Appendix A. Table 2-7 presents the pre-project demand based on the NS UIS.

Table 2-7: Baseline Demand for Future Cumulative Condition

Address	APN	Current Land Use	Acreage	Water Demand (gpd)
1001 N Shoreline Blvd	-	High-Intensity Office/R&D	7.81	23,400
Total	**-**	**-**	***7.81***	***23,400***

2.4.2. Post-Project Demand

Because the office constructed as Phase I of the mixed-use development is not going to be removed as part of the Project, pre-Project demands are assumed to remain and Project demands are added to the pre-Project demands. The total post-Project demand in the Future Cumulative Condition is given in Table 2-8.

Table 2-8: Post-Project Demand for Future Cumulative Condition

	Water Demand (gpd)
Pre-Project (Baseline) Demand	23,400
Project Demand	30,690
Total Post-Project Demand	***54,090***

Chapter 3. Water System Impact

Project impacts to water supply, water storage, hydraulic conveyance, and fire flow requirements are evaluated in this chapter to ensure the Project demand can be adequately met. Hydraulic conveyance and available fire flow are assessed for Existing (2010), Existing with Shoreline/101 CIP (2010), and Future Cumulative (2030) Conditions. Water supply and water storage are evaluated for the Future Cumulative Condition.

3.1. Demand Scenarios and Performance Criteria

Hydraulic deficiencies within the water system are evaluated under two demand scenarios: Peak Hour Demand (PHD) and Maximum Day Demand with Fire Flow (MDD + FF). The MDD and PHD peaking factors from the 2010 *Water Mater Plan* (WMP) are used for this analysis. As detailed in the 2010 WMP, MDD and PHD peaking factors are developed using SCADA data from peak usage months in 2006 and 2007. The peak hour occurred on the day with the largest daily demand, which was observed to be August 8, 2007. The calculated peaking factors, presented in Table 3-1, are applied to Average Day Demand (ADD).

Table 3-1: Peaking Factors

Category	Peaking Factor
Maximum Day	1.71
Peak Hour	2.79

Established design criteria used to evaluate the Project impact for all scenarios are summarized in Table 3-2.

Table 3-2: Water System Performance Criteria

Criteria	PHD	MDD + FF
Minimum Allowable Pressure (psi)	40	20

3.2. Water Supply Analysis

The increased water demand from Project development in the Future Cumulative Condition is compared with the City's supply turnouts and groundwater well capacities to ensure demand can be met. The Mountain View water system is divided into three pressure zones to maintain reasonable pressures throughout the City's rising topography moving south, further from the Bay. The Project is located in Pressure Zone 1, which is, at this time, supplied by only one San Francisco Public Utilities Commission (SFPUC) turnout (Turnout #5).

Water demand versus supply capacity by Pressure Zone is given in Table 3-3. Total capacity for Pressure Zone 1 includes peak hour turnout capacity from SFPUC Turnout #5 and additional supply supplemented from Wells #22 and 23. Demand in Pressure Zone 1 cannot be sufficiently supplied by the current supply operation; however, as discussed in the *2030 General Plan Update Utility Impact Study* (IEC, 2011), surplus supply in Pressure Zone 2 could be routed to Pressure Zone 1 to make up the supply deficiency in Pressure Zone 1. A pressure reducing valve (PRV) moving water from Pressure Zone 2 to Pressure Zone 1 at North Whisman Road, between Walker Drive and Whisman Court, is included in the *North Bayshore Precise Plan Phase II Utility Impact*

Study (NBPPII UIS; Schaaf & Wheeler, October 2016). The ability of the system to meet Project demand and the fire flow requirement at Future Cumulative Condition assumes this CIP has been constructed. The additional Project demand does not impact the City's ability to meet total system demand.

Table 3-3: Future Cumulative Condition Demand Versus Supply

Pressure Zone	2030 Future Cumulative Demand			Total Capacity (mgd)*
	Pre-Project		Post-Project	
	ADD (mgd)	PHD (mgd)	PHD (mgd)	
1	7.11	19.84	19.92	16.56
2	8.37	23.35	23.35	30.53
3	1.60	4.47	4.47	5.10
Total	**18.01**	**50.25**	**50.52**	**52.19**

** Total Capacity from Table 3-8 in the General Plan Update Utility Impact Study (IEC, 2011)*

3.3. Water Storage Analysis

Project impact to water storage volume requirements is evaluated according to the State Water Resources Control Board Division of Drinking Water (DDW). DDW requires storage equal to 8 hours of Maximum Day Demand (MDD) plus fire flow storage in each pressure zone. The required storage versus active storage in the City is detailed in Table 3-4 pre- and post-Project. The maximum active storage in the City is 17 MG. However, the City currently operates with only the operational active storage of 14.3 MG.

The fire flow volume in Table 3-4 revises the requirement in the 2010 WMP and is estimated from the largest fire flow requirement in each pressure zone. Based on California Fire Code (CFC) requirements the fire flow volume is calculated as 5,000 gpm for 4 hours. Pressure Zone 3 has the potential for a reduction in required fire flow volume since the controlling fire flow requirement is the hospital along Grant Rd, which has a planning-level fire flow requirement of 3,500 for 4 hours.

Since the City has the storage volume available to meet DDW requirements in the Future Cumulative Condition pre- and post-Project, no additional storage improvements are recommended. In the future, when City demand and storage requirements exceed the current operating storage, the City may need to alter reservoir operation schemes.

Table 3-4: DDW Storage Requirements

Pressure Zone	Maximum Active Storage* (MG)	Operational Active Storage (MG)	Fire Flow (MG)	Future Cumulative Condition Demand					
				Pre-Project			Post-Project		
				ADD (mgd)	8 Hours of MDD (MG)	DDW Requirement (MG)	ADD (mgd)	8 Hours of MDD (MG)	DDW Requirement (MG)
1	6.00	5.1	1.2	7.11	4.05	5.25	7.14	4.07	5.27
2	8.00	6.5	1.2	8.37	4.77	5.97	8.37	4.77	5.97
3	3.00	2.7	1.2	1.60	0.91	2.11	1.60	0.91	2.11
Total	**17.00**	**14.3**	**3.6**	**17.08**	**9.73**	**13.33**	**17.11**	**9.75**	**13.35**

** Maximum Active Storage from Table 4-2 in the General Plan Update Utility Impact Study (IEC, 2011)*

3.4. Existing Condition (2010) Results

3.4.1. Hydraulic Model Information

Existing water system performance is analyzed with the demands and land use type in the City's InfoWATER model developed for the City's 2010 WMP. Demand is added to the model split amongst the model nodes to reflect demands at the separate buildings.

Domestic and fire services for the Project will connect to the existing 12-inch water main in Terra Bella Avenue, the existing 12-inch water main in North Shoreline Boulevard, and the existing 8-inch water main in Linda Vista Avenue according to the Project Plan Set dated July 17, 2018. The existing hydrants on North Shoreline Boulevard, Terra Bella Avenue, and Linda Vista Avenue near the Project will remain. One new hydrant along Terra Bella Avenue is proposed near the southwest corner of the Project parcel. On-site private fire mains are proposed to connect existing water mains in Terra Bella Avenue and Linda Vista Avenue to four hydrants interior to the site. These private fire mains have double check detector assemblies at connection points to the public system and do not provide any conveyance benefits for the City.

The Existing Condition pre-Project fire flow requirement at the Project site is taken from the *1001 North Shoreline Utility Impact Study* (NS UIS; Schaaf & Wheeler, April 2015). The fire flow requirement for the pre-Project condition is 3,500 gpm based on building size and material for Phase I of the multi-use development. After Project development, the Project specific required fire flow at the site is anticipated to be 3,500 gpm with an applied 50% reduction for the assumed approval of an installed fire sprinkler system.

3.4.2. Peak Hour Demand (PHD) – Pre and Post Project

System pressures are evaluated under Peak Hour Demand (PHD) pre-Project (Figure B-2) and post-Project (Figure B-3). At Existing Condition the system meets performance criteria system-wide. The Project development does not impact the system hydraulic performance under PHD.

3.4.3. Maximum Day Demand with Fire Flow (MDD+FF) – Pre and Post Project

The pre-Project required fire flow of 3,500 gpm is met at the existing hydrant locations at the proposed Project site, as shown on Figure B-4.

After Project development, the anticipated project-specific fire flow requirement of 3,500 gpm can be met at the evaluated locations at the site as illustrated in Figure B-5 and detailed in Table 3-5. The existing deficiencies in Pressure Zone 1 shown on Figures B-4 and B-5 are not near the Project site and are independent of the Project. These deficiencies may be due to higher planning level fire flow requirements and should be reviewed with the City Fire Marshal.

Table 3-5: Existing Condition Evaluated Project Fire Flow Nodes

Model Node ID	Location	Required Fire Flow Rate (gpm)	Available Flow Pre-Project (gpm)	Available Flow Post-Project (gpm)
J-2862	Project Location – N Shoreline Blvd near HWY 101	Pre-Project: 3,500 Post-Project: 3,500	8,088	8,080
J-2850	Project Location – N Shoreline Blvd	Pre-Project: 3,500 Post-Project: 3,500	8,847	8,814
J-2839	Project Location – N Shoreline Blvd and Terra Bella Ave	Pre-Project: 3,500 Post-Project: 3,500	9,858	9,824
J-2837	Project Location – Terra Bella Ave	Pre-Project: 3,500 Post-Project: 3,500	8,371	8,341
J-2834	Project Location – Terra Bella Ave and Linda Vista Ave	Pre-Project: 3,500 Post-Project: 3,500	7,988	7,791
J-2855	Project Location – Linda Vista Ave	Pre-Project: 3,500 Post-Project: 3,500	5,801	5,479
J-2835	Project Location – New Hydrant	Pre-Project: N/A Post-Project: 3,500	N/A	7,815
HY-1	Project Location – New Hydrant	Pre-Project: N/A Post-Project: 3,500	N/A	5,350
HY-2	Project Location – New Hydrant	Pre-Project: N/A Post-Project: 3,500	N/A	5,249
HY-3	Project Location – New Hydrant	Pre-Project: N/A Post-Project: 3,500	N/A	4,344
HY-4	Project Location – New Hydrant	Pre-Project: N/A Post-Project: 3,500	N/A	4,765

3.4.4. Deficiencies – Pre and Post Project

With Existing Condition demand, the water system meets system design criteria at PHD and is able to adequately supply the increased Project demand. Existing fire flow deficient nodes are evaluated within the Project Pressure Zone (Zone 1) for Project impact. Available fire flow pre- and post-Project at selected deficient nodes is presented in Table 3-6 showing minimal impact (<1%) due to Project development.

Table 3-6: Selected Existing Condition Fire Flow Deficient Nodes Pre- and Post-Project

Node ID	Location	Required Fire Flow Rate (gpm)	Available Flow Pre-Project (gpm)	Available Flow Post-Project (gpm)
J-4194	Macon Ave	5,000	3,747	3,741
J-4185	San Leandro St	3,500	3,443	3,410
J-2624	Jackson St	2,500	2,382	2,381
J-2883	Rock St and Camp St	2,500	2,284	2,282
J-4208	Off La Avenida	3,500	2,554	2,550

3.5. Existing with Shoreline/101 CIP Condition (2010) Results

3.5.1. Hydraulic Model Information

Water system performance is analyzed with the demands and land use type in the City's InfoWATER model developed for the City's 2010 WMP. One Capital Improvement Project (CIP) is added in the Existing with Shoreline/101 CIP Condition model crossing State Highway 101 near North Shoreline Boulevard. This CIP proposes a 16-inch diameter pipe from North Shoreline Boulevard through the Project site and across State Highway 101 as well as a 12-inch diameter pipe along La Avenida, Inigo Way, and Pear Avenue to North Shoreline Boulevard. This CIP is in the design phase but may not be under construction at the time the Project is under construction. Demand is added to the model split amongst the model nodes to reflect demands at the separate buildings.

Domestic and fire services for the Project will connect to the existing 12-inch water main in Terra Bella Avenue, the existing 12-inch water main in North Shoreline Boulevard, and the existing 8-inch water main in Linda Vista Avenue according to the Project Plan Set dated July 17, 2018. The existing hydrants on North Shoreline Boulevard, Terra Bella Avenue, and Linda Vista Avenue near the Project will remain. One new hydrant along Terra Bella Avenue is proposed near the southwest corner of the Project parcel. On-site private fire mains are proposed to connect existing water mains in Terra Bella Avenue and Linda Vista Avenue to four hydrants interior to the site. These private fire mains have double check detector assemblies at connection points to the public system and do not provide any conveyance benefits for the City.

The Existing Condition pre-Project fire flow requirement at the Project site is taken from the *1001 North Shoreline Utility Impact Study* (NS UIS; Schaaf & Wheeler, April 2015). The fire flow requirement for the pre-Project condition is 3,500 gpm based on building size and material for Phase I of the multi-use development. After Project development, the Project specific required fire flow at the site is anticipated to be 3,500 gpm with an applied 50% reduction for the assumed approval of an installed fire sprinkler system.

3.5.2. Peak Hour Demand (PHD) – Pre and Post Project

System pressures are evaluated under Peak Hour Demand (PHD) pre-Project (Figure B-6) and post-Project (Figure B-7). Under Existing with Shoreline/101 CIP Condition, the system meets performance criteria system-wide. The Project development does not impact the system hydraulic performance under PHD.

3.5.3. Maximum Day Demand with Fire Flow (MDD+FF) – Pre and Post Project

The pre-Project required fire flow of 3,500 gpm is met at the existing hydrant locations at the proposed Project site, as shown on Figure B-8.

After Project development, the anticipated project-specific fire flow requirement of 3,500 gpm can be met at the evaluated locations at the site as illustrated in Figure B-9 and detailed in Table 3-7. The existing deficiencies in Pressure Zone 1 shown on Figures B-8 and B-9 are not near the Project site and are independent of the Project. These deficiencies may be due to higher planning level fire flow requirements and should be reviewed with the City Fire Marshal.

Table 3-7: Existing with Shoreline/101 CIP Condition Evaluated Project Fire Flow Nodes

Model Node ID	Location	Required Fire Flow Rate (gpm)	Available Flow Pre-Project (gpm)	Available Flow Post-Project (gpm)
J-2862	Project Location – N Shoreline Blvd near HWY 101	Pre-Project: 3,500 Post-Project: 3,500	8,116	8,122
J-2850	Project Location – N Shoreline Blvd	Pre-Project: 3,500 Post-Project: 3,500	9,048	9,036
J-2839	Project Location – N Shoreline Blvd and Terra Bella Ave	Pre-Project: 3,500 Post-Project: 3,500	10,020	10,016
J-2837	Project Location – Terra Bella Ave	Pre-Project: 3,500 Post-Project: 3,500	8,431	8,404
J-2834	Project Location – Terra Bella Ave and Linda Vista Ave	Pre-Project: 3,500 Post-Project: 3,500	8,030	8,005
J-2855	Project Location – Linda Vista Ave	Pre-Project: 3,500 Post-Project: 3,500	5,809	5,795
J-2835	Project Location – New Hydrant	Pre-Project: N/A Post-Project: 3,500	N/A	8,030
HY-1	Project Location – New Hydrant	Pre-Project: N/A Post-Project: 3,500	N/A	5,980
HY-2	Project Location – New Hydrant	Pre-Project: N/A Post-Project: 3,500	N/A	5,750
HY-3	Project Location – New Hydrant	Pre-Project: N/A Post-Project: 3,500	N/A	4,671
HY-4	Project Location – New Hydrant	Pre-Project: N/A Post-Project: 3,500	N/A	5,111

3.5.4. Deficiencies – Pre and Post Project

With Existing with Shoreline/101 CIP Condition demand, the water system meets system design criteria at PHD and is able to adequately supply the increased Project demand. Existing fire flow deficient nodes are evaluated

within the Project Pressure Zone (Zone 1) for Project impact. Available fire flow pre- and post-Project at selected deficient nodes is presented in Table 3-8 showing minimal impact (<1%) due to Project development.

Table 3-8: Selected Existing with Shoreline/101 CIP Condition Fire Flow Deficient Nodes Pre- and Post-Project

Node ID	Location	Required Fire Flow Rate (gpm)	Available Flow Pre-Project (gpm)	Available Flow Post-Project (gpm)
J-4194	Macon Ave	5,000	4,528	4,518
J-4185	San Leandro St	3,500	3,440	3,385
J-2624	Jackson St	2,500	2,381	2,380
J-2883	Rock St and Camp St	2,500	2,294	2,293
J-4208	Off La Avenida	3,500	2,784	2,780

3.6. Future Cumulative Condition (2030) Results

3.6.1. Hydraulic Model Information

Outside of the North Bayshore Precise Plan boundary, the Future Cumulative Condition model is created using water demand based on the 2030 General Plan Update (GPU) land use and includes the additional projects listed in Table A-1 in Appendix A, which were not accounted for or were in exceedance of the 2030 GPU projections. Within the North Bayshore Precise Plan Boundary, demands in the Future Cumulative Condition model are based on demands developed as part of the *North Bayshore Precise Plan Phase II Utility Impact Study* (NBPPII UIS; Schaaf & Wheeler, October 2016). System performance is analyzed under the assumption that all recommended CIPs in the NBPPII UIS and the Shoreline/101 CIP have been constructed.

Domestic and fire services for the Project will connect to the existing 12-inch water main in Terra Bella, the proposed 18-inch water main in North Shoreline Boulevard, and the existing 8-inch diameter water main in Linda Vista Avenue. The existing hydrants on North Shoreline Boulevard, Terra Bella Avenue, and Linda Vista Avenue near the Project will remain. One new hydrant along Terra Bella Avenue is proposed near the southwest corner of the Project parcel. On-site private fire mains are proposed to connect existing water mains in Terra Bella Avenue and Linda Vista Avenue to four hydrants interior to the site. These private fire mains have double check detector assemblies at connection points to the public system and do not provide any conveyance benefits for the City.

The Future Cumulative Condition pre-Project fire flow requirement is not changed from the Existing Condition. The fire flow requirement for the pre-Project land use is 3,500 gpm based on building size and material for Phase I of the multi-use development as described in the NS UIS. After Project development, the Project specific required fire flow at the site is anticipated to be 3,500 gpm with an applied 50% reduction for the assumed approval of an installed fire sprinkler system.

3.6.2. Peak Hour Demand (PHD) – Pre and Post Project

The system generally has adequate pressures pre-Project (Figure B-10). Pressures near Shoreline Golf Links are close to the performance criteria of 40 psi, with one node falling just below the performance criteria.

With the post-Project demands, pressure at the same node falls slightly, but no additional nodes fall below the performance criteria (Figure B-11). Otherwise, the system meets design criteria with post-Project demands.

3.6.3. Maximum Day Demand with Fire Flow (MDD+FF) – Pre and Post Project

In the Future Cumulative Condition, the system is able to meet the fire flow requirements at the site pre- and post-Project as shown on Figures B-12 and B-13 and as detailed in Table 3-9. Within Pressure Zone 1, there is one deficient node, but it is far from and independent of the Project.

Table 3-9: Future Cumulative Condition Evaluated Project Fire Flow (FF) Nodes

Model Node ID	Location	Required Fire Flow Rate (gpm)	Available Flow Pre-Project (gpm)	Available Flow Post-Project (gpm)
J-2862	Project Location – N Shoreline Blvd near HWY 101	Pre-Project: 3,500 Post-Project: 3,500	7,650	7,640
J-2850	Project Location – N Shoreline Blvd	Pre-Project: 3,500 Post-Project: 3,500	7,910	7,875
J-2839	Project Location – N Shoreline Blvd and Terra Bella Ave	Pre-Project: 3,500 Post-Project: 3,500	7,992	7,957
J-2837	Project Location – Terra Bella Ave	Pre-Project: 3,500 Post-Project: 3,500	7,233	7,203
J-2834	Project Location – Terra Bella Ave and Linda Vista Ave	Pre-Project: 3,500 Post-Project: 3,500	7,043	7,014
J-2855	Project Location – Linda Vista Ave	Pre-Project: 3,500 Post-Project: 3,500	3,968	3,958
J-2835	Project Location – New Hydrant	Pre-Project: N/A Post-Project: 3,500	N/A	7,029
HY-1	Project Location – New Hydrant	Pre-Project: N/A Post-Project: 3,500	N/A	4,855
HY-2	Project Location – New Hydrant	Pre-Project: N/A Post-Project: 3,500	N/A	4,784
HY-3	Project Location – New Hydrant	Pre-Project: N/A Post-Project: 3,500	N/A	4,019
HY-4	Project Location – New Hydrant	Pre-Project: N/A Post-Project: 3,500	N/A	4,378

3.6.4. Deficiencies – Pre and Post Project

With Future Cumulative Condition demand, one node near Shoreline Golf Links falls below the performance criteria of 40 psi during PHD. With post-Project demand, pressure at the same node falls slightly, but no additional nodes fall below the performance criteria. All other nodes in Pressure Zone 1 meet the performance criteria pre- and post-Project.

The fire flow deficient node within Pressure Zone 1 is evaluated for Project impact. Table 3-10 compares the available fire flow before and after Project development, showing minimal (<1%) impact to the fire flow deficiency in Pressure Zone 1.

Table 3-10: Future Cumulative Condition Fire Flow Deficient Nodes Pre- and Post-Project

Node ID	Location	Required Fire Flow Rate (gpm)	Available Flow Pre-Project (gpm)	Available Flow Post-Project (gpm)
J-4185	San Leandro St	3,500	3,269	3,261

3.7. Recommended CIPs

Table 3-11 shows the existing and proposed diameters of some of the recommended CIPs within Pressure Zone 1. This CIP list does not include all of the CIPs within Pressure Zone 1, but represent the CIPs most likely to mitigate fire flow deficiencies that are impacted by the Project.

Table 3-11: Selected Recommended CIPs in Pressure Zone 1

CIP #	Source	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)
47	GP-UWSM Alt 1	700	8	12
52	GP-UWSM Alt 1, City Design Drawings	2,157	12 (along N Shoreline Blvd)	16
MV-1	City Design Drawings	1,716	12 (along La Avenida), 8 (along Inigo Way and Pear Ave)	12
54	GP-UWSM Alt 1, City Design Drawings	1,181	-	16
57A	NBPPII UIS	700	-	8
58A	NBPPII UIS	645	-	8

Chapter 4. Sewer Flow Projections

This chapter discusses the sewer flow estimate for Project development and provides a comparison to pre-Project baseline condition. Because the Project is the second phase of the multi-use development at 1001 North Shoreline Boulevard, Project impact is evaluated by adding the estimated Project flow to the pre-Project flow at the Project site. The pre-Project baseline sewer flow at the Project site is taken as the Phase I office building flow based on the *1001 North Shoreline Utility Impact Study* (NS UIS; Schaaf & Wheeler, April 2015). Outside of the Project, pre-Project sewer flow in the Existing and Future Cumulative Condition follows the methodology described in the 2010 *Sewer Master Plan* (SMP) and 2030 *General Plan Update Utility Impact Study* (GPUUIS; IEC, October 2011). The sewer generation factor for estimating Project sewer flow is taken from previous technical studies (2010 SMP, 2030 GPUUIS, and *North Bayshore Precise Plan Phase II Utility Impact Study*) to remain consistent with the City-wide flow projections used in the hydraulic models.

Three types of sewer flow loading are used to model the sewer system: base wastewater flow, groundwater infiltration (GWI), and rainfall-dependent infiltration/inflow (RDI/I). GWI includes base infiltration (BI) and pumped groundwater discharged to the sewer system. RDI/I is stormwater that enters the sewer system. GWI and RDI/I values are modeled as constant flows.

Base wastewater flow (BWF) is from residential, commercial, institutional, office, and industrial sources. As described in the 2010 SMP, BWF is developed on an individual parcel level using the 2005 and 2006 water billing records and applying a return-to-sewer (RTS) ratio calculated for land use type. Change in BWF throughout the day due to daily use patterns is known as diurnal variation and is accounted for by applying residential and non-residential diurnal curves. BWF and diurnal curves used in this analysis are taken from the 2010 SMP to remain consistent with previous City-wide modeling. The sewer flows discussed in this section are the BWF values representing average flows and are not peaked.

4.1. Project Sewer Flow

Project generated sewer flow is estimated from the proposed number of residential units and the retail square footage provided in the Project Plan Set dated July 17, 2018. A return to sewer (RTS) ratio is applied to the water duty factors from Table 2-1 to estimate sewer flow for each land use type. For the Project's multi-family residential land use, an RTS ratio of 0.9 was used based on the 2010 SMP RTS ratio for multi-family residential land use. For the Project's retail land use, an RTS ratio of 0.7 was used based on the 2010 SMP RTS ratio for service commercial land use. Table 4-1 provides the estimated Project sewer flow.

Table 4-1: Project Sewer Flow

Building	Units	Area (sf)	Land Use Type	Sewer Duty Factor (gpd/unit)	Water Demand (gpd)
Apartments	203		Multi-Family Residential	90	18,270
Apartments		3,000	Retail	91	273
Apartments Subtotal	*203*	*3,000*	-	-	*18,543*
Condominiums	100		Multi-Family Residential	90	9,000
Total	***303***	***3,000***	**-**	**-**	***27,543***

4.2. Existing Condition (2010)

4.2.1. Pre-Project (Baseline)

The pre-Project (baseline) condition for the Project parcels represents the flow from the office building constructed as part of Phase I. Outside of the Project area, the pre-Project condition includes parcel-level sewer flow adopted from the City's InfoSWMM model, developed as part of the 2010 SMP. Table 4-2 details the sewer flow in the model for the Project parcels, which was is taken from the NS UIS.

Table 4-2: Baseline Flow for Existing Condition

Address	APN	Current Land Use	Acreage	Sewer Flow (gpd)
1001 N Shoreline Blvd	-	High-Intensity Office/R&D	7.81	16,718
Total	**-**	**-**	***7.81***	***16,718***

4.2.2. Post-Project Flow

For the Project impact analysis, Project sewer flow is added to the Existing Condition model. Because the office constructed as Phase I of the mixed-use development is not going to be removed as part of the Project, pre-Project flows are assumed to remain and Project flows are added to the pre-Project flows. The total post-Project flow in the Existing Condition is given in Table 4-3.

Table 4-3: Post-Project Project Flow for Existing Condition

	Sewer Flow (gpd)
Pre-Project (Baseline) Flow	16,718
Project Flow	27,543
Total Post-Project Flow	***44,261***

4.3. Existing with Shoreline/101 CIP Condition (2010)

4.3.1. Pre-Project (Baseline)

As with the Existing Condition, the pre-Project (baseline) condition for the Project parcels represents the flow from the office building constructed as part of Phase I. Outside of the Project area, the pre-Project condition includes parcel-level sewer flow adopted from the City's InfoSWMM model, developed as part of the 2010 SMP. Table 4-4 details the sewer flow in the model for the Project parcels, which was is taken from the NS UIS.

Table 4-4: Baseline Flow for Existing with Shoreline/101 CIP Condition

Address	APN	Current Land Use	Acreage	Sewer Flow (gpd)
1001 N Shoreline Blvd	-	High-Intensity Office/R&D	7.81	16,718
Total	**-**	**-**	***7.81***	***16,718***

4.3.2. Post-Project Flow

For the Project impact analysis, Project sewer flow is added to the Existing with Shoreline/101 CIP Condition model. Because the office constructed as Phase I of the mixed-use development is not going to be removed as part of the Project, pre-Project flows are assumed to remain and Project flows are added to the pre-Project flows. The total post-Project flow in the Existing with Shoreline/101 CIP Condition is given in Table 4-5.

Table 4-5: Post-Project Project Flow for Existing with Shoreline/101 CIP Condition

	Sewer Flow (gpd)
Pre-Project (Baseline) Flow	16,718
Project Flow	27,543
Total Post-Project Flow	***44,261***

4.4. Future Cumulative Condition (2030)

4.4.1. Pre-Project (Baseline)

The pre-Project (baseline) condition for the Project parcels represents the demand from the office building constructed as part of Phase I. Outside of the Project parcels, Future Cumulative (baseline) flow is adopted from the City's InfoSWMM model, developed as part of the 2030 GPUUIS updated to include and has since been recent City approved projects outlined in Table A-1 in Appendix A. Table 4-6 presents the parcel-level pre-project flow.

Table 4-6: Baseline Flow for Future Cumulative Condition

Address	APN	Current Land Use	Acreage	Sewer Flow (gpd)
1001 N Shoreline Blvd	-	High-Intensity Office/R&D	7.81	16,718
Total	**-**	**-**	***7.81***	***16,718***

4.4.2. Post-Project Flow

Because the office constructed as Phase I of the mixed-use development is not going to be removed as part of the Project, pre-Project flows are assumed to remain and Project flows are added to the pre-Project flows. The total post-Project flow in the Future Cumulative Condition is given in Table 4-7.

Table 4-7: Post-Project Flow for Future Cumulative Condition

	Sewer Flow (gpd)
Pre-Project (Baseline) Flow	16,718
Project Flow	27,543
Total Post-Project Flow	***44,261***

Chapter 5. System Impact

The impact of Project development on the sewer system is analyzed under both Existing (2010) and Future Cumulative (2030) Condition. The specific affected area of the gravity system evaluated for Project impact begins at the Project site at the intersection of Terra Bella Avenue and Linda Vista Avenue and flows north to the Shoreline Sewage Pump Station via the Central Trunk.

5.1. Scenarios and Performance Criteria

Sewer capacity is analyzed under Peak Wet Weather Flow (PWWF) and Average Dry Weather Flow (ADWF). PWWF is used to determine hydraulic deficiencies according to the performance criteria in Table 5-1. ADWF is used to determine adequacy of treatment capacity.

The ADWF scenario is developed in the model by adding BWF and GWI. Since the ADWF scenario models average daily flows, BWF and GWI are not peaked. The PWWF scenario applies the diurnal peaking curves for residential and non-residential flows and simulates system response to rainfall dependent inflow and infiltration. The diurnal peaking curves are adopted from the City's 2010 *Sewer Master Plan* (SMP). Groundwater Infiltration (GWI) and rainfall-dependent infiltration/inflow (RDI/I) are included, but are not peaked.

Table 5-1: Sewer System Performance Criteria

Criteria	Pipe Diameter ≤ 12 inch	Pipe Diameter > 12 inch
Maximum Flow Depth/Pipe Diameter (d/D)	0.50	0.75

5.2. Sewer Treatment, Joint Interceptor, and San Antonio Interceptor Capacity

Sewage generated within the City is treated at the Regional Water Quality Control Plant (RWQCP) in Palo Alto. The sewer collection system is a gravity system with the majority of flow discharging into three main trunk lines that convey flow from the south to the north and terminate at the Shoreline Sewage Pump Station (SPS) located within the City's Shoreline Park. Flow is then pumped to the gravity Joint Interceptor Sewer that conveys flow to the RWQCP. The remaining flow not received at the SPS is discharged to the Los Altos' San Antonio Interceptor that also conveys flow into the Joint Interceptor.

The City entered into a joint agreement, referred to as the Basic Agreement, with the cities of Palo Alto and Los Altos in 1968 for the construction and maintenance of the joint sewer system addressing the need for conveyance, treatment, and disposal of wastewater to meet Regional Board requirements. In accordance with the Basic Agreement, Palo Alto owns the RWQCP and administers the Basic Agreement with the partnering agencies purchasing individual capacity rights in terms of an average annual flow that can be discharged to the RWQCP. Capacity rights of the three cities can be rented or purchased from other neighboring agencies and each partnering agency can sell their capacity to others. Contractual capacity is based upon the 1985 Addendum No. 3 of the 1968 Joint Sewer System agreement that revised capacity rates in relationship to facility expansion and is based upon Average Annual Flow (defined as 1.05 times Average Dry Weather Flow). Separate service

agreements with the RWQCP have since reallocated current capacity rights to include six partnering agencies. Table 5-2 presents the current capacity rights for each agency.

Table 5-2: RWQCP Joint Facilities Capacity Rights

Partner Agency	Treatment Capacity	72-inch Joint Interceptor Capacity
	Average Annual Flow (MGD)	Peak Wet Weather Flow (MGD)
Palo Alto	15.3	14.59
East Palo Alto Sanitary District	3.06	0
Los Altos Hills	0.63	3.41
Stanford University	2.11	0
Mountain View	15.1	50
Los Altos	3.8	12
Total	***40***	***80***

Source: Long Range Facilities Plan for the Regional Water Quality Control Plant (Carollo, May 2012)

The City's total capacity rights include flow leaving the City through the SPS and the amount of flow that the City discharges into the Los Altos' San Antonio Interceptor, per the 1970 Los Altos San Antonio Trunk Sewer Capacity Agreement between the two cities. The total system-wide contractual capacity for Mountain View is evaluated in the Existing and Future Cumulative Conditions with increased Project flow. Table 5-3 shows the City's projected flows compared to the RWQCP Joint Facilities capacity rights.

Per the Basic Agreement, the partnering agencies agree to conduct an engineering study when their respective service area reaches 80% of their contractual capacity rights. The Future Cumulative Condition estimates that the projected demand pre-Project and post-Project will exceed the 80% capacity threshold. The required engineering study when the City reaches 80% of their capacity shall redefine the anticipated future needs of the treatment plant.

Table 5-3: Capacity Rights Comparison

RWQCP Joint Facility	Mountain View Contractual Capacity (MGD)	Pre-Project		Post-Project	
		2010 Existing (MGD)	2030 Future Cumulative (MGD)	2010 Existing (MGD)	2030 Future Cumulative (MGD)
Treatment	15.1	10.19	14.35	10.22	14.38
Joint Interceptor	50.0	16.82	21.78	16.91	21.88

** Treatment = Average Annual Flow (AAF), Joint Interceptor = PWWF*

5.3. Existing Condition (2010) Results

5.3.1. Hydraulic Model Information

The Existing Condition sewer system is modeled using the City's InfoSWMM model developed as part of the 2010 SMP. Project sewer flow is assumed to discharge into the 15-inch diameter public main in Terra Bella

Avenue and to the existing 18-inch diameter main along North Shoreline Boulevard. Flow is divided and added to the proposed manholes to reflect flow generated at the separate buildings.

5.3.2. Peak Wet Weather Flow (PWWF) Scenario – Pre and Post Project

The sewer system has sufficient capacity downstream of the Project with both the pre-Project and post-Project flows in the Existing Condition as shown in Figures B-14a, B-14b, B-15a, and B-15b.

5.3.3. Deficiencies – Pre and Post Project

Existing Condition model results comparing pre- and post-Project d/D are presented in Table 5-4. The system meets d/D performance criteria in all pipes downstream of the Project.

5.4. Existing with Shoreline/101 CIP Condition (2010) Results

5.4.1. Hydraulic Model Information

The Existing with Shoreline/101 CIP Condition sewer system is modeled using the City's InfoSWMM model developed as part of the 2010 SMP. One Capital Improvement Project (CIP) is added to the Existing Condition model for a sewer main crossing State Highway 101 near North Shoreline Boulevard. This CIP proposes a 21-inch diameter from North Shoreline Boulevard through the Project site, across State Highway 101, and along La Avenida, Inigo Way, and Pear Avenue. This CIP is in the design stage but construction of the CIP may not coincide with Project construction. Project sewer flow is assumed to discharge into the 15-inch diameter public main in Terra Bella Avenue and to the new 21-inch diameter main through the Project site. Flow is divided and added to the proposed manholes to reflect flow generated at the separate buildings.

5.4.2. Peak Wet Weather Flow (PWWF) Scenario – Pre and Post Project

The sewer system has sufficient capacity downstream of the Project with both the pre-Project and post-Project flows in the Existing Condition as shown in Figures B-16a, B-16b, B-17a, and B-17b.

5.4.3. Deficiencies – Pre and Post Project

Existing Condition model results comparing pre- and post-Project d/D are presented in Table 5-5. The system meets d/D performance criteria in all pipes downstream of the Project.

5.5. Future Cumulative Condition (2030) Results

5.5.1. Hydraulic Model Information

The Future Cumulative Condition model is created using sewer flows based on the 2030 General Plan Update (GPU) land uses and includes additional projects listed in Table A-1 in Appendix A, which were not accounted for or were in exceedance of the 2030 GPU projections. System performance is analyzed under the assumption that all recommended CIPs in the 2030 *General Plan Update Utility Impact Study* (GPUUIS; IEC, October 2011) and the Shoreline/101 CIP have been constructed. Project sewer flow is assumed to discharge into the 15-inch diameter public main in Terra Bella Avenue and the new 21-inch diameter main through the Project site. Flow is divided and added to the proposed manholes to reflect flow generated at the separate buildings.

Three recommended CIPs in the 2030 GPUUIS are downstream of the Project, CIPs #97, #100, and #108. CIP #97 recommends upsizing 190 feet of 8-inch diameter pipe to 15-inch diameter pipe and 2,028 feet of 6- and 15-inch diameter pipe to 18-inch diameter pipe. CIP #100 in the 2030 GPUUIS includes upsizing 4,419 feet of existing 18-inch diameter pipe to 21-inch diameter pipe along North Shoreline Boulevard from Terra Bella Avenue to Crittenden Lane. For this analysis, however, the alignment for CIP #100 conforms to City-provided plans from January 2018 for crossing State Highway 101 such that approximately 5,800 feet of pipe is upsized to 21-inch diameter pipe. CIP #108 recommends upsizing 241 feet of 21-inch diameter pipe to 24-inch diameter pipe along North Shoreline Boulevard north of Crittenden Lane.

5.5.2. Peak Wet Weather Flow (PWWF) Scenario – Pre and Post Project

The system meets d/D performance criteria downstream of the Project in the Future Cumulative Condition both pre- and post-Project as shown in Figures B-18a, B-18b, B-19a, and B-19b.

5.5.3. Deficiencies – Pre and Post Project

Table 5-5 presents the comparison of d/D criteria pre- and post-Project for pipes downstream of the Project development. The system meets d/D performance criteria in all pipes downstream of the Project in the pre- and post-Project condition. Recommended CIP diameters from the 2030 GPUUIS in Table 5-6 are indicated by bold green font. CIP diameters from City-provided plans (January 2018) for crossing State Highway 101 near North Shoreline Boulevard are indicated by bold orange font.

5.6. Project Contribution to Deficient Sewer Pipes

Approximately 4,660 feet of sewer mains along North Shoreline Boulevard downstream of the Project site was identified as deficient in the 2030 GPUUIS based on d/D performance criteria. The 2030 GPUUIS recommends upsizing these pipes from 18-inch diameter to 21-inch diameter and from 21-inch diameter to 24-inch diameter. Given the alignment provided by the City for crossing State Highway 101, the length of pipe recommended to be upsized increases to approximately 6,042 feet from Terra Bella to north of Crittenden Lane. These improvements are assumed to be constructed in the model results presented in this report.

Of that 6,042 feet, approximately 738 feet are planned to be installed as part of the Project development as the improved pipeline crosses through the Project site. Another 2,731 feet from the Project site crossing State Highway 101 to North Shoreline Boulevard is currently in design phase as City Capital Improvement Project 16-61. The remaining 2,573 feet were recommended for replacement in the 2030 GPUUIS but are not yet in the design phase.

In addition, approximately 725 feet of sewer pipe downstream of the Project along Terra Bella Avenue was identified as deficient in the 2030 GPUUIS and was recommended to be upsized from 15-inch diameter to 18-inch diameter. However, City Capital Improvement Projects 16-21 and 16-22 will divert flow from the Central Trunk to the East Trunk, decreasing the amount of flow through pipes in Terra Bella Avenue. With these Capital Projects, assumed to be constructed in the Future Cumulative Condition for this analysis, model results show that the 725 feet of pipe on Terra Bella Avenue downstream of the Project does not need to be upsized. This pipe can remain as a 15-inch diameter pipe without exceeding the d/D performance criteria.

Table 5-8 provides a comparison of ADWF in order to determine the Project contribution for the recommended pipe improvement projects and may be used to estimate developer impact fees for fair share impact to the system. Flow contribution is based upon Future Cumulative Condition ADWF. This Utility Impact Study shows that the proposed development will contribute flows that would cause performance and capacity deficiencies in downstream segments of the sanitary sewer system. The applicant shall pay their fair share contribution, as determined by the Public Works Department, to implement these sewer system improvements.

Table 5-4: Existing Condition Model Results – Pre and Post Project

Sewer Main ID	Upstream MH ID	Downstream MH ID	Existing Diameter (in)	Length (ft)	Slope (%)	ADWF				PWWF				
						Pre-Project		Post-Project		Pre-Project		Post-Project		
						Max Flow (MGD)	d/D	Max Flow (MGD)	d/D	Max Flow (MGD)	d/D	Max Flow (MGD)	d/D	Pipe Capacity Remaining (% of Allowed d/D)
611	F4-128	F4-016	15	725	0.26	0.191	0.3284	0.200	0.3316	0.339	0.4550	0.353	0.4590	39
607_2	F4-016	SW13	18	451	0.30	1.145	0.3793	1.154	0.3826	2.088	0.5336	2.102	0.5378	28
CDT-37	SW13	E4-003	18	145	0.30	1.145	0.3795	1.173	0.3844	2.088	0.5339	2.130	0.5403	28
525	E4-003	E4-008	18	188	0.30	1.146	0.3801	1.173	0.3850	2.090	0.5361	2.132	0.5426	28
501	E4-008	E4-007	18	57	0.30	1.146	0.3868	1.174	0.3918	2.091	0.5434	2.133	0.5499	27
492	E4-007	E4-001	18	141	0.30	1.147	0.3477	1.174	0.3521	2.092	0.4825	2.134	0.4880	35
478	E4-001	E4-006	18	150	0.72	1.147	0.3022	1.175	0.3060	2.094	0.4163	2.136	0.4209	44
457	E4-006	E4-005	18	115	0.72	1.148	0.3023	1.175	0.3060	2.095	0.4165	2.137	0.4210	44
446	E4-005	E4-004	18	66	0.72	1.148	0.3024	1.176	0.3061	2.096	0.4166	2.138	0.4212	44
434	E4-004	E4-003	18	50	0.72	1.149	0.3024	1.176	0.3062	2.098	0.4167	2.140	0.4213	44
424	E4-003	E4-062	18	37	0.72	1.149	0.3170	1.177	0.3209	2.099	0.4386	2.141	0.4435	41
420	E4-062	E4-002	18	200	0.51	1.150	0.3316	1.177	0.3357	2.100	0.4604	2.142	0.4656	38
389	E4-002	E4-001	18	88	0.51	1.150	0.3316	1.178	0.3358	2.102	0.4732	2.143	0.4794	36
377	E4-001	E4-060	18	32	0.51	1.151	0.3700	1.178	0.3747	2.103	0.5303	2.145	0.5373	28
373	E4-060	E4-012	18	232	0.26	1.151	0.3772	1.179	0.3820	2.104	0.5286	2.146	0.5348	29
349	E4-012	E4-002	18	294	0.44	1.155	0.3618	1.183	0.3662	2.111	0.5051	2.153	0.5108	32
331	E4-002	D4-035	18	375	0.38	1.254	0.3745	1.282	0.3789	2.265	0.5233	2.307	0.5291	29
306	D4-035	D4-033	18	166	0.42	1.269	0.3586	1.296	0.3627	2.288	0.4957	2.330	0.5009	33
290	D4-033	SW10	21	296	0.42	1.271	0.3157	1.298	0.3192	2.292	0.4314	2.334	0.4357	42
CDT-13	SW10	D4-021	21	121	0.28	1.285	0.3254	1.313	0.3291	2.305	0.4481	2.347	0.4528	40
260	D4-021	D4-050	18	341	0.43	1.287	0.3683	1.315	0.3725	2.309	0.5111	2.351	0.5167	31
241	D4-050	D4-068	18	364	0.43	1.292	0.3675	1.319	0.3717	2.315	0.5099	2.357	0.5155	31
209	D4-068	SW11	18	509	0.44	1.294	0.3902	1.322	0.3945	2.320	0.5329	2.362	0.5383	28
CDT-17	SW11	SW12	18	24	0.08	1.294	0.3844	1.322	0.3886	2.320	0.5194	2.362	0.5242	30
CDT-19	SW12	D4-006	21	39	0.65	1.460	0.3689	1.487	0.3720	2.583	0.5020	2.626	0.5068	32

Table 5-4 (Continued): Existing Condition Model Results – Pre and Post Project

Sewer Main ID	Upstream MH ID	Downstream MH ID	Existing Diameter (in)	Length (ft)	Slope (%)	ADWF				PWWF				
						Pre-Project		Post-Project		Pre-Project		Post-Project		
						Max Flow (MGD)	d/D	Max Flow (MGD)	d/D	Max Flow (MGD)	d/D	Max Flow (MGD)	d/D	Pipe Capacity Remaining (% of Allowed d/D)
177	D4-006	C4-021	30	420	0.10	1.778	0.3033	1.806	0.3056	2.970	0.3957	3.013	0.3987	47
156	C4-021	C4-017	30	396	0.14	1.779	0.2963	1.806	0.2987	2.971	0.3904	3.014	0.3936	48
144	C4-017	C4-016	30	244	0.11	1.779	0.3052	1.807	0.3077	2.972	0.4092	3.015	0.4127	45
118	C4-016	C4-012	30	160	0.18	1.957	0.3470	1.985	0.3496	3.226	0.4556	3.269	0.4591	39
113	C4-012	C4-010	30	323	0.03	1.958	0.3411	1.985	0.3437	3.227	0.4529	3.270	0.4565	39
103	C4-010	C4-008	30	59	0.34	1.958	0.3330	1.986	0.3357	3.228	0.4484	3.271	0.4520	40
96	C4-008	C4-004	30	292	0.10	1.976	0.4042	2.004	0.4068	3.259	0.5147	3.303	0.5181	31
88	C4-004	B4-019	30	323	0.03	1.977	0.3525	2.005	0.3548	3.260	0.4487	3.304	0.4518	40
83	B4-019	B4-017	21	445	0.44	1.985	0.3521	2.012	0.3547	3.272	0.4635	3.316	0.4671	38
72	B4-017	B4-007	21	216	0.76	1.999	0.3209	2.027	0.3232	3.295	0.4195	3.339	0.4226	44
64	B4-007	B4-005	21	143	0.78	2.000	0.4240	2.028	0.4269	3.301	0.5474	3.345	0.5512	27
60	B4-005	B4-003	21	98	0.00	2.000	0.3941	2.028	0.3966	3.305	0.5054	3.349	0.5088	32
58	B4-003	B4-001	27	64	1.26	2.000	0.2973	2.028	0.2992	3.309	0.3812	3.352	0.3838	49
56	B4-001	B4-024	27	347	0.11	2.000	0.3022	2.028	0.3042	3.312	0.3879	3.356	0.3905	48
50	B4-024	B4-022	27	75	1.04	2.000	0.2561	2.028	0.2580	3.316	0.3377	3.360	0.3402	55
45	B4-022	B4-016	21	432	0.40	2.000	0.3756	2.028	0.3783	3.323	0.4965	3.367	0.5003	33
19	B4-016	B4-014	42	556	0.19	4.598	0.2644	4.625	0.2652	8.185	0.3557	8.226	0.3566	52
21	B4-014	B4-012	42	368	0.27	4.598	0.2638	4.625	0.2646	8.188	0.3550	8.230	0.3559	53
22	B4-012	B4-010	42	450	0.22	4.598	0.2225	4.625	0.2231	8.191	0.2981	8.233	0.2988	60
20	B4-010	B4-003	42	86	1.39	4.598	0.1898	4.625	0.1904	8.195	0.2533	8.237	0.2540	66
24	B4-003	B4-001	42	200	0.50	4.598	0.2244	4.625	0.2251	8.199	0.2966	8.240	0.2973	60
25	B4-001	SPS	42	338	0.44	4.598	0.2020	4.625	0.2026	8.202	0.2809	8.244	0.2817	62

Table 5-5: Existing with Shoreline/101 CIP Condition Model Results – Pre and Post Project

Sewer Main ID	Upstream MH ID	Downstream MH ID	Existing Diameter (in)	Length (ft)	Slope (%)	ADWF				PWWF				
						Pre-Project		Post-Project		Pre-Project		Post-Project		
						Max Flow (MGD)	d/D	Max Flow (MGD)	d/D	Max Flow (MGD)	d/D	Max Flow (MGD)	d/D	Pipe Capacity Remaining (% of Allowed d/D)
611	F4-128	F4-016	15	725	0.26	0.191	0.3318	0.200	0.3344	0.339	0.4613	0.353	0.4647	38
SW-1	F4-016	SW1	18	389	0.30	1.145	0.3744	1.154	0.3769	2.088	0.5231	2.102	0.5265	30
SW-2	SW1	SW2	21	332	0.28	1.146	0.3119	1.174	0.3158	2.090	0.4304	2.133	0.4354	42
SW-3	SW2	SW3	21	353	0.28	1.147	0.3120	1.175	0.3159	2.092	0.4307	2.135	0.4357	42
SW-4	SW3	SW4	21	53	0.28	1.148	0.3122	1.176	0.3161	2.094	0.4310	2.137	0.4360	42
SW-5	SW4	SW5	21	915	0.28	1.149	0.3122	1.177	0.3160	2.096	0.4310	2.139	0.4359	42
SW-6	SW5	SW6	21	140	0.28	1.150	0.3123	1.178	0.3161	2.099	0.4312	2.142	0.4362	42
SW-7	SW6	SW7	21	105	0.28	1.151	0.3126	1.179	0.3165	2.101	0.4317	2.144	0.4367	42
SW-8	SW7	SW8	21	139	0.28	1.152	0.3127	1.180	0.3165	2.103	0.4318	2.146	0.4368	42
SW-9	SW8	SW9	21	763	0.28	1.152	0.3127	1.180	0.3166	2.103	0.4319	2.146	0.4368	42
SW-10	SW9	D4-041	21	53	0.28	1.152	0.3130	1.180	0.3169	2.103	0.4322	2.146	0.4372	42
309	D4-041	D4-005	21	26	0.28	1.156	0.3136	1.184	0.3174	2.107	0.4327	2.150	0.4376	42
310	D4-005	D4-037	21	325	0.28	1.160	0.3139	1.187	0.3178	2.111	0.4329	2.154	0.4379	42
SW-11	D4-037	D4-035	21	265	0.28	1.162	0.3173	1.190	0.3210	2.114	0.4398	2.157	0.4448	41
306	D4-035	D4-033	18	166	0.42	1.283	0.3607	1.311	0.3648	2.303	0.4975	2.346	0.5029	33
290	D4-033	SW10	21	296	0.42	1.285	0.3175	1.313	0.3210	2.306	0.4329	2.350	0.4374	42
CDT-13	SW10	D4-021	21	121	0.28	1.300	0.3274	1.327	0.3310	2.319	0.4497	2.362	0.4546	39
260	D4-021	D4-050	18	341	0.43	1.302	0.3705	1.329	0.3747	2.323	0.5131	2.366	0.5187	31
241	D4-050	D4-068	18	364	0.43	1.306	0.3697	1.333	0.3739	2.330	0.5119	2.373	0.5175	31
209	D4-068	SW11	18	509	0.44	1.309	0.3924	1.336	0.3967	2.335	0.5348	2.378	0.5402	28
CDT-17	SW11	SW12	18	24	0.08	1.309	0.3866	1.336	0.3907	2.335	0.5211	2.378	0.5260	30
CDT-19	SW12	D4-006	21	39	0.65	1.474	0.3696	1.502	0.3727	2.593	0.5000	2.636	0.5050	33
177	D4-006	C4-021	30	420	0.10	1.778	0.3033	1.806	0.3056	2.958	0.3949	3.002	0.3980	47
156	C4-021	C4-017	30	396	0.14	1.779	0.2963	1.806	0.2987	2.959	0.3896	3.003	0.3928	48
144	F4-128	F4-016	30	244	0.11	1.779	0.3052	1.807	0.3077	2.960	0.4083	3.004	0.4118	45

Table 5-5 (Continued): Existing with Shoreline/101 CIP Condition Model Results – Pre and Post Project

Sewer Main ID	Upstream MH ID	Downstream MH ID	Existing Diameter (in)	Length (ft)	Slope (%)	ADWF				PWWF				
						Pre-Project		Post-Project		Pre-Project		Post-Project		
						Max Flow (MGD)	d/D	Max Flow (MGD)	d/D	Max Flow (MGD)	d/D	Max Flow (MGD)	d/D	Pipe Capacity Remaining (% of Allowed d/D)
118	C4-016	C4-012	30	160	0.18	1.957	0.3470	1.985	0.3496	3.214	0.4547	3.258	0.4582	39
113	C4-012	C4-010	30	323	0.03	1.958	0.3411	1.985	0.3437	3.215	0.4520	3.259	0.4556	39
103	C4-010	C4-008	30	59	0.34	1.958	0.3330	1.986	0.3357	3.216	0.4475	3.260	0.4511	40
96	C4-008	C4-004	30	292	0.10	1.976	0.4042	2.004	0.4068	3.248	0.5138	3.292	0.5172	31
88	C4-004	B4-019	30	323	0.03	1.977	0.3525	2.005	0.3548	3.249	0.4480	3.293	0.4510	40
83	B4-019	B4-017	21	445	0.44	1.985	0.3521	2.012	0.3547	3.261	0.4626	3.305	0.4662	38
72	B4-017	B4-007	21	216	0.76	1.999	0.3209	2.027	0.3232	3.284	0.4187	3.328	0.4219	44
64	B4-007	B4-005	21	143	0.78	2.000	0.4240	2.028	0.4269	3.290	0.5464	3.334	0.5502	27
60	B4-005	B4-003	21	98	0.00	2.000	0.3941	2.028	0.3966	3.294	0.5045	3.338	0.5079	32
58	B4-003	B4-001	27	64	1.26	2.000	0.2973	2.028	0.2992	3.297	0.3806	3.342	0.3832	49
56	B4-001	B4-024	27	347	0.11	2.000	0.3022	2.028	0.3042	3.301	0.3872	3.345	0.3899	48
50	B4-024	B4-022	27	75	1.04	2.000	0.2561	2.028	0.2580	3.305	0.3370	3.349	0.3396	55
45	B4-022	B4-016	21	432	0.40	2.000	0.3756	2.028	0.3783	3.312	0.4956	3.356	0.4993	33
19	B4-016	B4-014	42	556	0.19	4.598	0.2644	4.625	0.2652	8.192	0.3559	8.234	0.3568	52
21	B4-014	B4-012	42	368	0.27	4.598	0.2638	4.625	0.2646	8.195	0.3551	8.238	0.3561	53
22	B4-012	B4-010	42	450	0.22	4.598	0.2225	4.625	0.2231	8.199	0.2982	8.241	0.2990	60
20	B4-010	B4-003	42	86	1.39	4.598	0.1898	4.625	0.1904	8.202	0.2535	8.245	0.2541	66
24	B4-003	B4-001	42	200	0.50	4.598	0.2244	4.625	0.2251	8.206	0.2967	8.248	0.2974	60
25	B4-001	SPS	42	338	0.44	4.598	0.2020	4.625	0.2026	8.210	0.2811	8.252	0.2819	62

Note: CIP diameters based on City-provided plans (January 2018) are indicated by bold, orange font.

Table 5-6: Future Cumulative Condition Model Results – Pre and Post Project

Sewer Main ID	Upstream MH ID	Downstream MH ID	CIP Diameter (in)	Length (ft)	Slope (%)	ADWF				PWWF				
						Pre-Project		Post-Project		Pre-Project		Post-Project		
						Max Flow (MGD)	d/D	Max Flow (MGD)	d/D	Max Flow (MGD)	d/D	Max Flow (MGD)	d/D	Pipe Capacity Remaining (% of Allowed d/D)
611	F4-128	F4-016	15*	725	0.26	0.470	0.4281	0.479	0.4305	0.699	0.5602	0.713	0.5634	25
SW-1	F4-016	SW1	21	389	0.30	1.772	0.3889	1.781	0.3911	3.003	0.5249	3.018	0.5279	30
SW-2	SW1	SW2	21	332	0.28	1.773	0.3931	1.801	0.3964	3.005	0.5313	3.048	0.5358	29
SW-3	SW2	SW3	21	353	0.28	1.774	0.3933	1.802	0.3966	3.008	0.5315	3.050	0.5360	29
SW-4	SW3	SW4	21	53	0.28	1.775	0.3934	1.803	0.3967	3.010	0.5316	3.053	0.5361	29
SW-5	SW4	SW5	21	915	0.28	1.776	0.3984	1.804	0.4017	3.009	0.5384	3.052	0.5429	28
SW-6	SW5	SW6	21	140	0.28	1.864	0.4037	1.891	0.4069	3.144	0.5457	3.186	0.5503	27
SW-7	SW6	SW7	21	105	0.28	1.865	0.4046	1.892	0.4078	3.146	0.5467	3.189	0.5513	26
SW-8	SW7	SW8	21	139	0.28	1.874	0.4051	1.902	0.4083	3.155	0.5471	3.198	0.5517	26
SW-9	SW8	SW9	21	763	0.28	1.874	0.4054	1.902	0.4087	3.155	0.5478	3.198	0.5524	26
SW-10	SW9	D4-041	21	53	0.28	1.874	0.4072	1.902	0.4104	3.154	0.5498	3.197	0.5544	26
309	D4-041	D4-005	21	26	0.28	1.896	0.4092	1.923	0.4125	3.181	0.5514	3.224	0.5560	26
310	D4-005	D4-037	21	325	0.28	1.915	0.4114	1.942	0.4147	3.198	0.5552	3.241	0.5598	25
SW-11	D4-037	D4-035	21	265	0.28	1.915	0.4059	1.943	0.4089	3.200	0.5390	3.243	0.5432	28
306	D4-035	D4-033	21	166	0.42	2.234	0.4200	2.261	0.4229	3.551	0.5497	3.594	0.5538	26
290	D4-033	SW10	21	418	0.30	2.251	0.4481	2.279	0.4511	3.568	0.5858	3.611	0.5902	21
CDT-13	SW10	D4-021	21	121	0.28	2.251	0.4270	2.279	0.4298	3.568	0.5553	3.611	0.5593	25
260	D4-021	D4-050	21	341	0.43	2.252	0.4021	2.279	0.4048	3.569	0.5230	3.612	0.5267	30
241	D4-050	D4-068	21	364	0.43	2.328	0.4235	2.356	0.4263	3.685	0.5561	3.728	0.5602	25
209	D4-068	SW11	21	509	0.34	2.298	0.4169	2.326	0.4196	3.653	0.5422	3.697	0.5461	27
CDT-17	SW11	SW12	21	24	0.25	2.298	0.4170	2.326	0.4196	3.653	0.5325	3.697	0.5359	29
CDT-19	SW12	D4-006	27	39	0.65	2.697	0.4168	2.725	0.4190	4.450	0.5731	4.490	0.5770	23
177	D4-006	C4-021	30	420	0.10	3.261	0.4159	3.288	0.4178	5.124	0.5371	5.172	0.5402	28

**2030 GPUUIS identified this segment as a CIP; however CIP is not required if City CIP 16-21 and 16-22 are constructed*

Table 5-5 (Continued): Future Cumulative Condition Model Results – Pre and Post Project

Sewer Main ID	Upstream MH ID	Downstream MH ID	CIP Diameter (in)	Length (ft)	Slope (%)	ADWF				PWWF				
						Pre-Project		Post-Project		Pre-Project		Post-Project		
						Max Flow (MGD)	d/D	Max Flow (MGD)	d/D	Max Flow (MGD)	d/D	Max Flow (MGD)	d/D	Pipe Capacity Remaining (% of Allowed d/D)
156	C4-021	C4-017	30	396	0.14	3.261	0.4132	3.289	0.4152	4.952	0.5303	4.997	0.5334	29
144	C4-017	C4-016	30	244	0.10	3.262	0.4286	3.289	0.4307	4.942	0.5552	4.986	0.5585	26
118	C4-016	C4-012	30	160	0.18	3.482	0.4763	3.509	0.4785	5.164	0.6051	5.208	0.6085	19
113	C4-012	C4-010	30	323	0.03	3.482	0.4744	3.510	0.4766	5.164	0.6030	5.208	0.6063	19
103	C4-010	C4-008	30	59	0.34	3.483	0.4706	3.510	0.4728	5.164	0.5993	5.209	0.6026	20
96	C4-008	C4-004	30	292	0.10	3.536	0.5357	3.564	0.5378	5.217	0.6573	5.261	0.6604	12
88	C4-004	B4-019	30	323	0.03	3.537	0.4664	3.564	0.4683	5.218	0.5785	5.262	0.5816	22
83	B4-019	B4-017	21	445	0.44	3.552	0.4912	3.580	0.4934	5.243	0.6295	5.287	0.6332	16
72	B4-017	B4-007	21	216	0.76	3.628	0.4344	3.656	0.4363	5.359	0.5448	5.403	0.5475	27
64	B4-007	B4-005	**24**	143	0.78	3.630	0.4735	3.657	0.4753	5.367	0.5819	5.411	0.5845	22
60	B4-005	B4-003	**24**	98	0.00	3.630	0.4453	3.657	0.4470	5.370	0.5447	5.414	0.5471	27
58	B4-003	B4-001	27	64	1.26	3.630	0.3995	3.657	0.4011	5.374	0.4919	5.418	0.4941	34
56	B4-001	B4-024	27	347	0.11	3.630	0.4064	3.657	0.4080	5.377	0.5007	5.421	0.5030	33
50	B4-024	B4-022	27	75	1.04	3.630	0.3274	3.657	0.3287	5.381	0.4054	5.425	0.4073	46
45	B4-022	B4-016	27	432	0.40	3.630	0.3639	3.657	0.3654	5.388	0.4505	5.432	0.4525	40
19	B4-016	B4-014	42	556	0.19	7.613	0.3424	7.641	0.3431	11.851	0.4341	11.893	0.4349	42
21	B4-014	B4-012	42	368	0.27	7.613	0.3416	7.641	0.3423	11.854	0.4326	11.896	0.4335	42
22	B4-012	B4-010	42	450	0.22	7.613	0.2870	7.641	0.2875	11.857	0.3615	11.900	0.3622	52
20	B4-010	B4-003	42	86	1.39	7.613	0.2441	7.641	0.2445	11.861	0.3062	11.903	0.3068	59
24	B4-003	B4-001	42	200	0.50	7.613	0.2860	7.641	0.2865	11.865	0.3563	11.907	0.3569	52
25	B4-001	B4-006	42	338	0.44	7.613	0.2691	7.641	0.2697	11.868	0.3485	11.911	0.3492	53

Note: 2030 GPUUIS recommended diameters are indicated by bold, green font.

CIP diameters based on City-provided plans (January 2018) are indicated by bold, orange font.

Table 5-6: Pipes Recommended for Upsizing and Percentage of Contributed Flow

GPUUIS CIP #	Sewer Main ID	Upstream MH ID	Downstream MH ID	Existing Diameter (in)	Proposed Diameter (in)	Total Future Cumulative ADWF Flow With Project (MGD)	Project Incremental Contribution		City of Mountain View Contribution	
							ADWF Flow (MGD)	Percentage of Total Flow (%)	ADWF Flow (MGD)	Percentage of Total Flow (%)
100 – Shoreline/101 CIP	SW-1	F4-016	SW1	18	21	1.781	0.009	1	1.772	99
	SW-2	SW1	SW2	-	21	1.801	0.028	2	1.773	98
	SW-3	SW2	SW3	-	21	1.802	0.028	2	1.774	98
	SW-4	SW3	SW4	-	21	1.803	0.028	2	1.775	98
	SW-5	SW4	SW5	-	21	1.804	0.028	2	1.776	98
	SW-6	SW5	SW6	-	21	1.891	0.028	1	1.863	99
	SW-7	SW6	SW7	8	21	1.892	0.028	1	1.864	99
	SW-8	SW7	SW8	8	21	1.902	0.028	1	1.874	99
	SW-9	SW8	SW9	-	21	1.902	0.028	1	1.874	99
	SW-10	SW9	D4-041	8	21	1.902	0.028	1	1.874	99
	309	D4-041	D4-005	8	21	1.923	0.028	1	1.895	99
	310	D4-005	D4-037	8	21	1.942	0.028	1	1.914	99
	SW-11	D4-037	D4-035	-	21	1.943	0.028	1	1.915	99
100	306	D4-035	D4-033	18	21	2.261	0.028	1	2.233	99
	290	D4-033	SW10	21	21	2.279	0.028	1	2.251	99
	CDT-13	SW10	D4-021	21	21	2.279	0.028	1	2.251	99
	260	D4-021	D4-050	18	21	2.279	0.028	1	2.251	99
	241	D4-050	D4-068	18	21	2.356	0.028	1	2.328	99
	209	D4-068	SW11	18	21	2.326	0.028	1	2.298	99
	CDT-17	SW11	SW12	18	21	2.326	0.028	1	2.298	99
102	64	B4-007	B4-005	21	24	3.657	0.028	1	3.629	99

Table 5-6: Pipes Recommended for Upsizing and Percentage of Contributed Flow (Continued)

GPUUIS CIP #	Sewer Main ID	Upstream MH ID	Downstream MH ID	Existing Diameter (in)	Proposed Diameter (in)	Total Future Cumulative ADWF Flow With Project (MGD)	Project Incremental Contribution		City of Mountain View Contribution	
							ADWF Flow (MGD)	Percentage of Total Flow (%)	ADWF Flow (MGD)	Percentage of Total Flow (%)
102	60	B4-005	B4-003	21	24	3.657	0.028	1	3.629	99

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APPENDIX A:

Additional Considered Projects

Table A-1: Additional Considered Projects for Future Cumulative Condition (Last Updated May 2018)

	Project	Change Area/Planning Area	Address	Status
1	Mountain View Co-Housing Community	Central Neighborhood	445 Calderon Ave	Completed
2	Hope Street Investors	Downtown/Evelyn Corridor	231-235 Hope St	Under Construction
3	Downtown Mixed Use Building	Downtown/Evelyn Corridor	605 Castro St	Completed
4	Residential Condominium Project	Downtown/Evelyn Corridor	325, 333, 339 Franklin St	Under Review
5	St Joseph's Church	Downtown/Evelyn Corridor	582 Hope Street	Under Construction
6	Fairmont Mixed Use	Downtown/Evelyn Corridor	881 Castro Street	Approved
7	Bryant/Dana Office	Downtown/Evelyn Corridor	250 Bryant St	Completed
8	Quad/Lovewell	East Whisman	369 N Whisman Rd	Approved but Inactive
9	Renault & Handley	East Whisman	625-685 Clyde Ave	Completed
10	Symantec	East Whisman	575 E Middlefield Rd	On Hold
11	LinkedIn	East Whisman	700 E Middlefield Rd & 1100 W Maude Ave	Under Review
12	National Avenue Partners	East Whisman	600 National Ave	Completed
13	2700 West El Camino Real	El Camino Real	2700 El Camino Real W	Approved
14	SummerHill Apt	El Camino Real	2650 El Camino Real W	Completed
15	Hotel Expansion	El Camino Real	2300 W El Camino Real	Approved
16	Lennar Multi-Family Communities	El Camino Real	2268 El Camino Real W	Under Construction
17	UDR	El Camino Real	1984 El Camino Real W	Completed
18	Residence Inn Gatehouse	El Camino Real	1854 El Camino Real W	Under Building Review
19	Residence Inn	El Camino Real	1740 El Camino Real W	Completed
20	Tropicana Lodge - Prometheus	El Camino Real	1720 El Camino Real W	Completed
21	Austin's - Prometheus	El Camino Real	1616 El Camino Real W	Completed
22	1701 W El Camino Real	El Camino Real	1701 El Camino Real W	Under Construction
23	First Community Housing	El Camino Real	1585 El Camino Real W	Completed
24	Harv's Car Wash - Regis House	El Camino Real	1101 El Camino Real W	Completed
25	Greystar	El Camino Real	801 El Camino Real W	Under Construction
26	Medical Building	El Camino Real	412 El Camino Real W	Completed
27	Lennar Apartments	El Camino Real	865 El Camino Real E	Completed
28	Wonder Years Preschool	El Camino Real	86 El Camino Real	Under Construction

Table A-1: Additional Considered Projects for Future Cumulative Condition (Last Updated May 2018)

	Project	Change Area	Address	Status
29	Evelyn Family Apartments	Grant/Sylvan	779 East Evelyn Ave	Under Construction
30	334 Bryant Ave	Grant/Sylvan	334 Bryant Ave	Under Building Review
31	Adachi Project	Grant/Sylvan	1991 Sun Mor Ave	Under Construction
32	840 E El Camino Real	Grant/Sylvan	840 El Camino Real E	Approved
33	Loop Convenience Store	Grant/Sylvan	790 El Camino Real E	Completed
34	El Camino Real Hospital Campus	Miramonte/Springer	2500 Grant Ave	Under Construction
35	City Sports	Miramonte/Springer	1040 Grant Ave	Completed
36	Prometheus	Moffett/Whisman	100 Moffett Blvd	Completed
37	Hampton Inn Addition	Moffett/Whisman	390 Moffett Blvd	Completed
38	Calvano Development	Moffett/Whisman	1075 Terra Bella Avenue	Approved
39	Moffett Gateway	Moffett/Whisman	750 Moffett Blvd	Under Construction
40	Holiday Inn Express	Moffett/Whisman	870 Leong Dr	Approved
41	Warmington Residential	Moffett/Whisman	660 Tyrella Avenue	Under Construction
42	Dividend Homes	Moffett/Whisman	111 and 123 Fairchild Dr	Completed
43	133-149 Fairchild Dr	Moffett/Whisman	133-149 Fairchild Dr	Completed
44	Warmington Residential	Moffett/Whisman	277 Fairchild Dr	Under Building Review
45	Hetch-Hetchy Property	Moffett/Whisman	450 N Whisman Dr	Under Construction
46	DeNardi Homes	Moffett/Whisman	186 East Middlefield Road	Under Building Review
47	Tripointe Homes	Moffett/Whisman	135 Ada Ave	Completed
48	Tripointe Homes	Moffett/Whisman	129 Ada Ave	Completed
49	Robson Homes	Moffett/Whisman	137 Easy St	Completed
50	167 N Whisman Rd	Moffett/Whisman	167 N Whisman Rd	Approved
51	Antenna Farm (Pacific Dr)	Moffett/Whisman	Pacific Dr	Under Construction
52	Pulte Homes	Moffett/Whisman	100, 420-430 Ferguson Dr	Under Construction
53	EFL Development	Moffett/Whisman	500 Ferguson Dr	Under Construction
54	Shenandoah Square Precise Plan	Moffett/Whisman	500 Moffett Blvd	On Hold
55	1185 Terra Bella Ave	Moffett/Whisman	1185 Terra Bella Ave	Approved

Table A-1: Additional Considered Projects for Future Cumulative Condition (Last Updated May 2018)

	Project	Change Area	Address	Status
56	Linde Hydrogen Fueling Station	Moffett/Whisman	830 Leong Dr	Completed
57	Windsor Academy	Monta Loma/Farley/Rock	908 N Rengstorff Ave	Completed
58	D.R. Horton	Monta Loma/Farley/Rock	827 N Rengstorff Ave	Completed
59	ROEM/Eden	Monta Loma/Farley/Rock	819 N Rengstorff Ave	Completed
60	Paul Ryan	Monta Loma/Farley/Rock	858 Sierra Vista Ave	Under Building Review
61	William Lyon Homes	Monta Loma/Farley/Rock	1951 Colony St	Completed
62	Dividend Homes	Monta Loma/Farley/Rock	1958 Rock St	Completed
63	Paul Ryan	Monta Loma/Farley/Rock	2392 Rock St	Completed
64	San Antonio Station	Monta Loma/Farley/Rock	100 & 250 Mayfield Ave	Completed
65	Northpark Apartments	Monta Loma/Farley/Rock	111 N Rengstorff Ave	Completed
66	333 N Rengstorff Ave	Monta Loma/Farley/Rock	333 N Rengstorff Ave	Under Building Review
67	Classic Communities	Monta Loma/Farley/Rock	1946 San Luis Ave	Completed
68	1998-2024 Montecitio Ave	Monta Loma/Farley/Rock	1998-2024 Montecito Ave	Under Construction
69	Classic Communities	Monta Loma/Farley/Rock	647 Sierra Vista Ave	Under Construction
70	Dividend Homes	Monta Loma/Farley/Rock	1968 Hackett Ave & 208-210 Sierra Vista Ave	Under Construction
71	California Communities	Monta Loma/Farley/Rock	2025 & 2065 San Luis Ave	Under Construction
72	2044 and 2054 Montecito Ave	Monta Loma/Farley/Rock	2044 & 2054 Montecito Ave	Under Review
73	Shorebreeze Apartments	Monta Loma/Farley/Rock	460 North Shoreline Blvd	Approved
74	Intuit	North Bayshore	2600 Marine Way	Completed
75	Sobrato Organization	North Bayshore	1255 Pear Ave	Under Review
76	Charleston East	North Bayshore	2000 North Shoreline Blvd	Under Construction
77	LinkedIn and Sywest	North Bayshore	1400 North Shoreline Blvd	On Hold
78	Broadreach	North Bayshore	1625 Plymouth Street	Under Construction
79	Microsoft	North Bayshore	1045-1085 La Avenida St	Under Building Review
80	Shashi Hotel	North Bayshore	1625 North Shoreline Blvd	Under Construction
81	Community School of Music and Art	San Antonio	250 San Antonio Circle	Approved
82	Prometheus	San Antonio	400 San Antonio Rd	Under Construction
83	Octane Fayette	San Antonio	2645 & 2655 Fayette Dr	Under Review

Table A-1: Additional Considered Projects for Future Cumulative Condition (Last Updated May 2018)

	Project	Change Area	Address	Status
84	Merlone Geier Partners (MGP)	San Antonio	405 San Antonio Rd	Under Construction
85	Anton Calega	San Antonio/Rengstorff/ Del Medio	394 Ortega Ave	Under Construction
86	Barry Swenson Builder	San Antonio/Rengstorff/ Del Medio	1958 Latham St	Under Building Review
87	2296 Mora Drive	San Antonio/Rengstorff/ Del Medio	2296 Mora Dr	Under Construction

APPENDIX B:

Figures

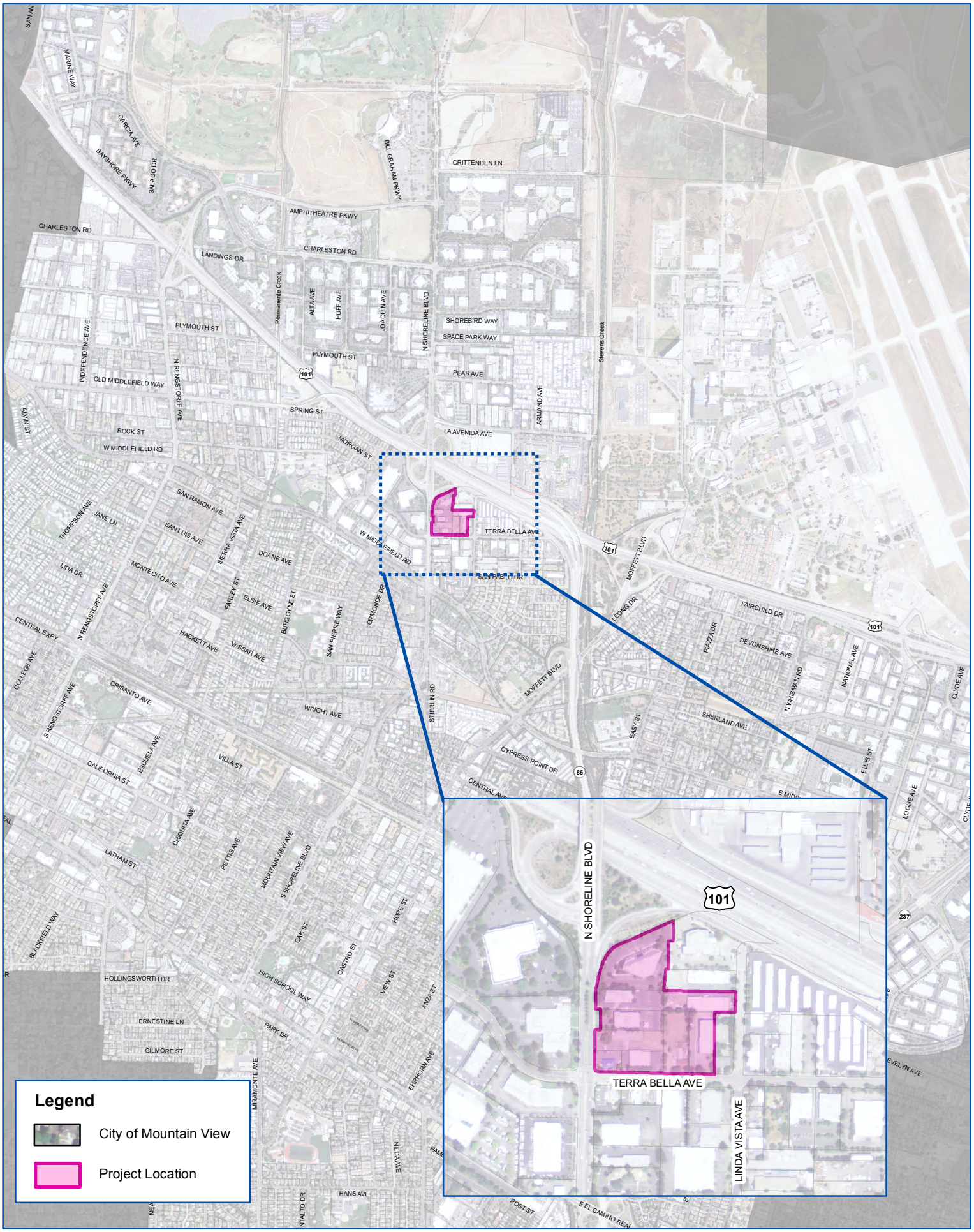

FIGURE B-1: **Project Location**

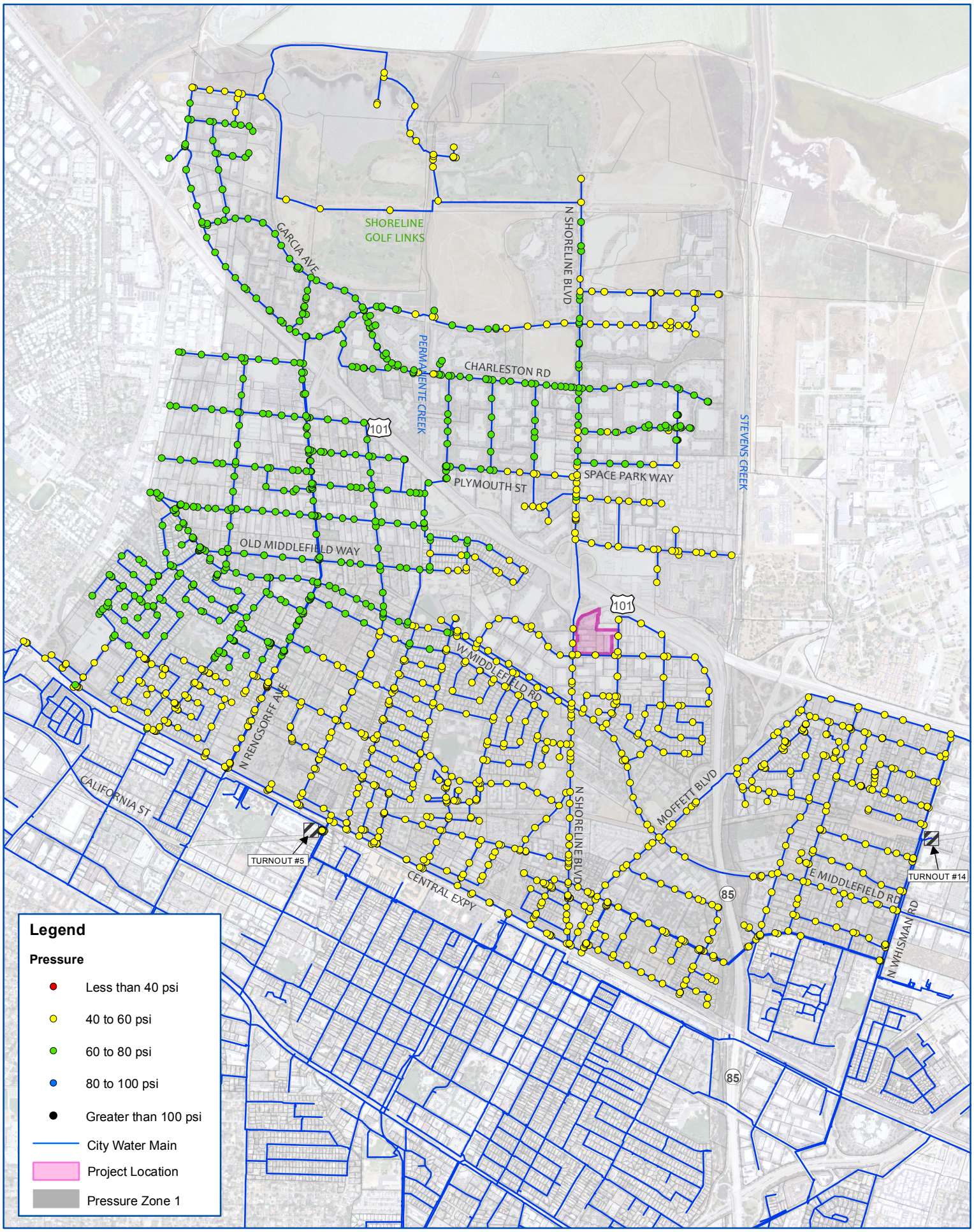

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FIGURE B-2: **Peak Hour Demand (PHD) - Without Project**

Water System Model - Existing Condition

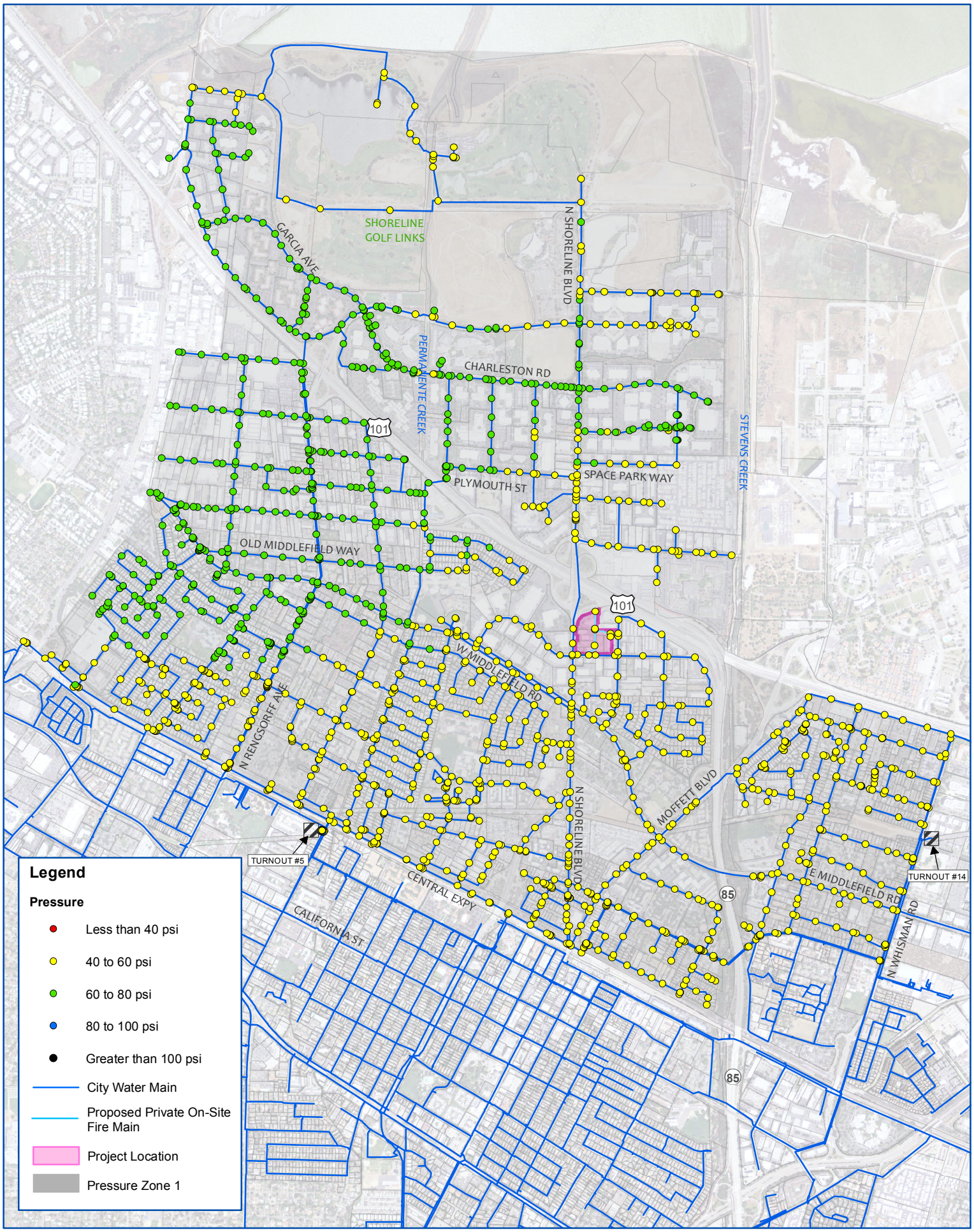

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FIGURE B-3: **Peak Hour Demand (PHD) - With Project**

Water System Model - Existing Condition

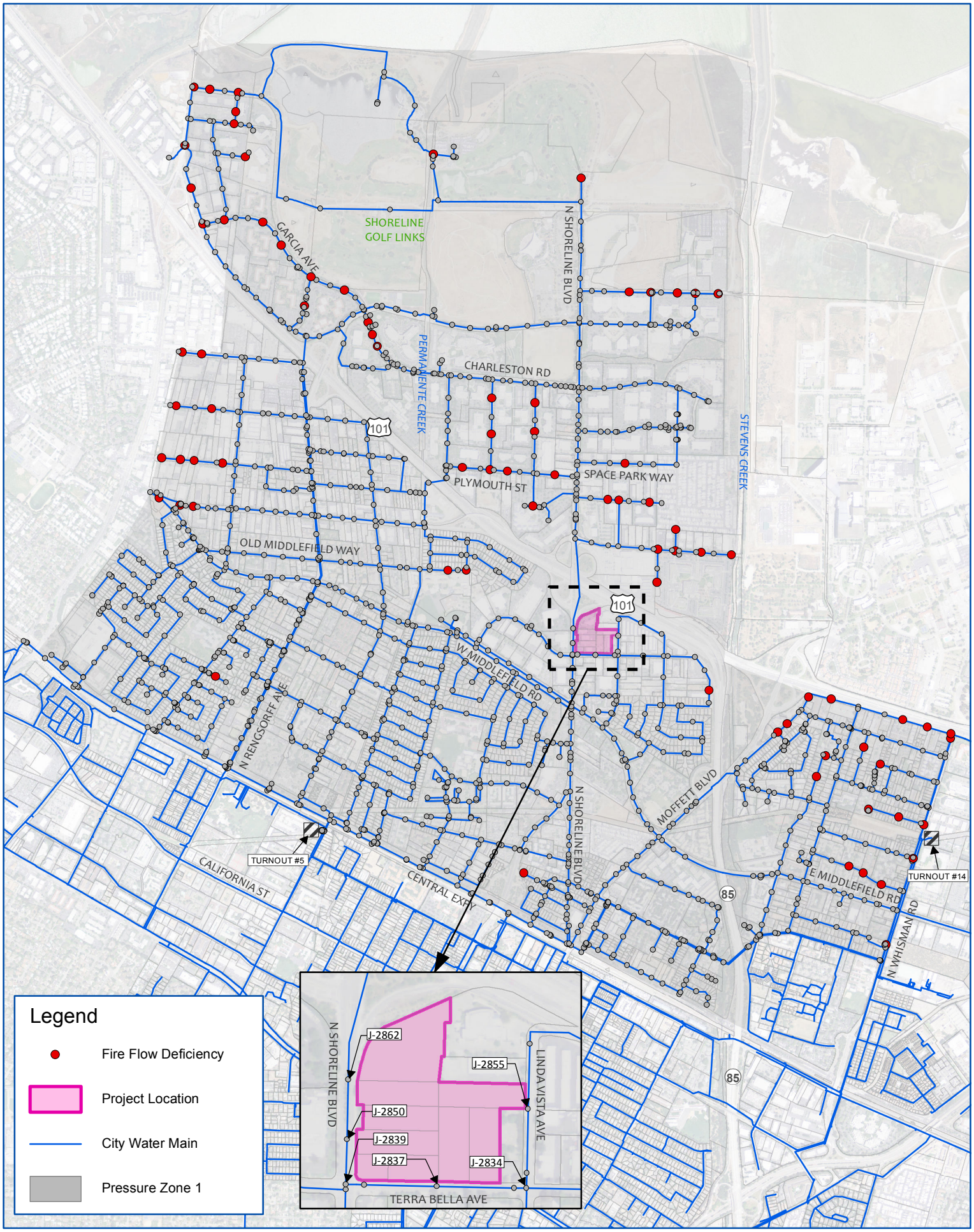

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FIGURE B-4: **Fire Flow Analysis - Without Project**

Water System Model - Existing Condition

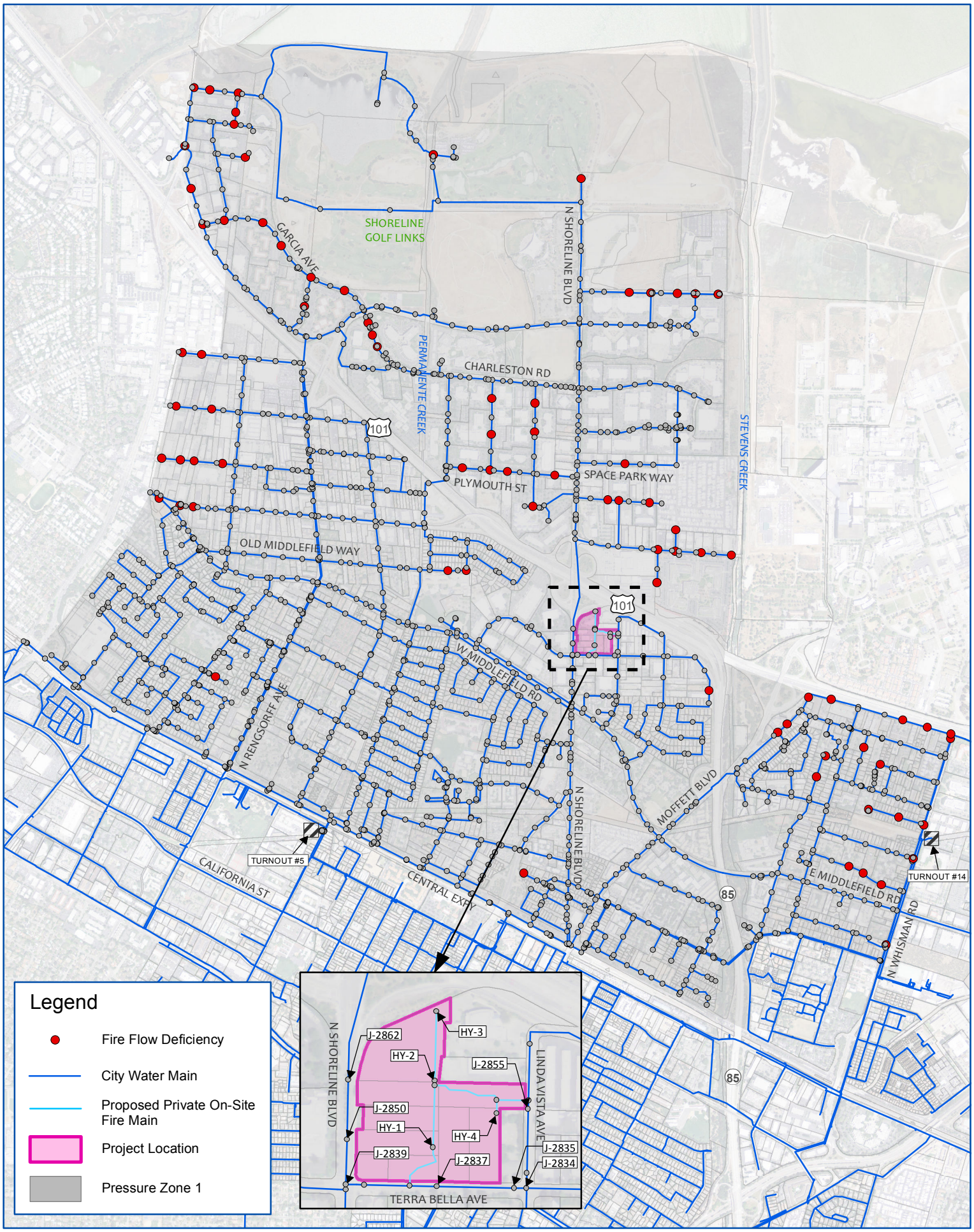

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FIGURE B-5: **Fire Flow Analysis - With Project**

Water System Model - Existing Condition

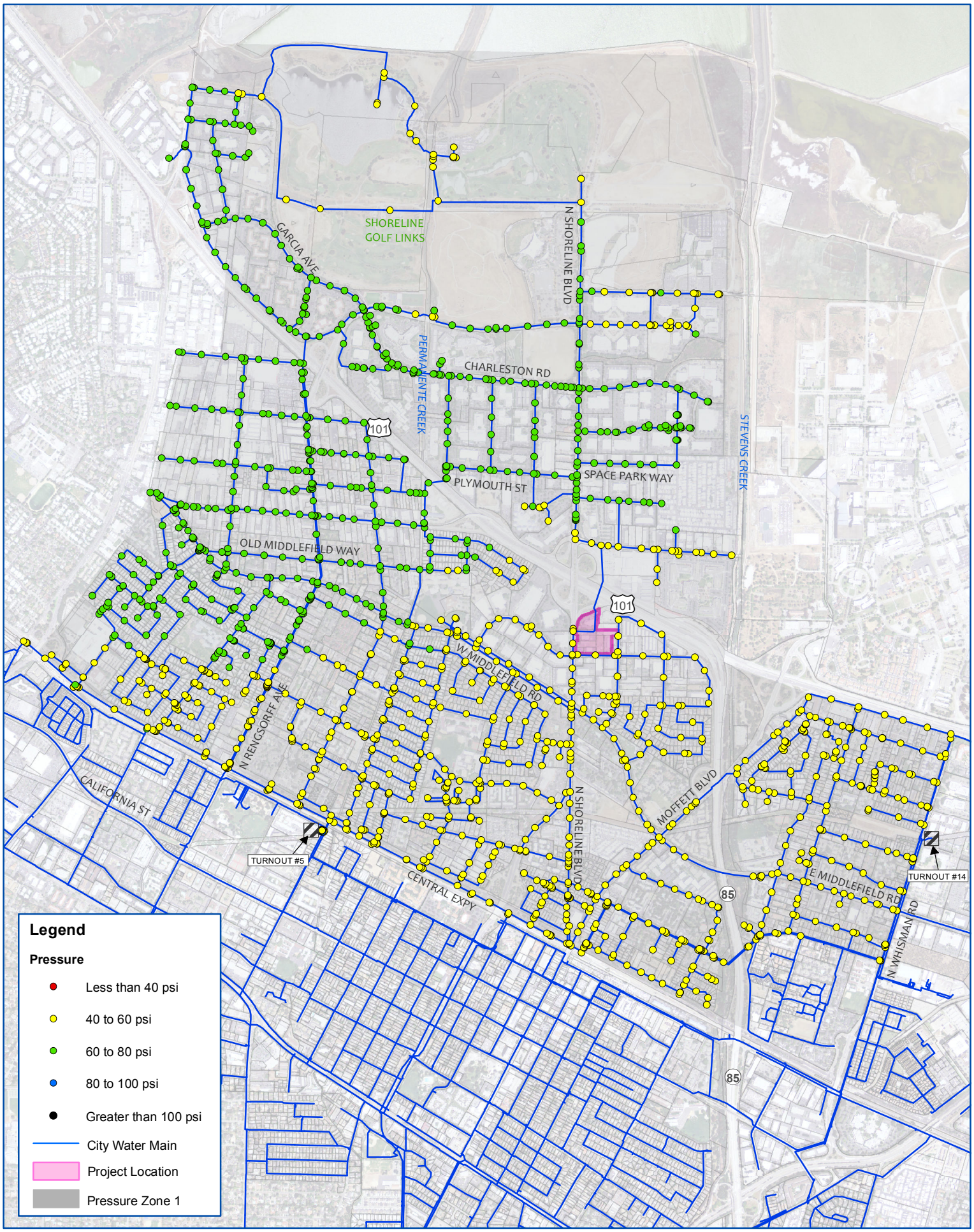

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FIGURE B-6: **Peak Hour Demand (PHD) - Without Project**

Water System Model - Existing with Shoreline/101 CIP Condition

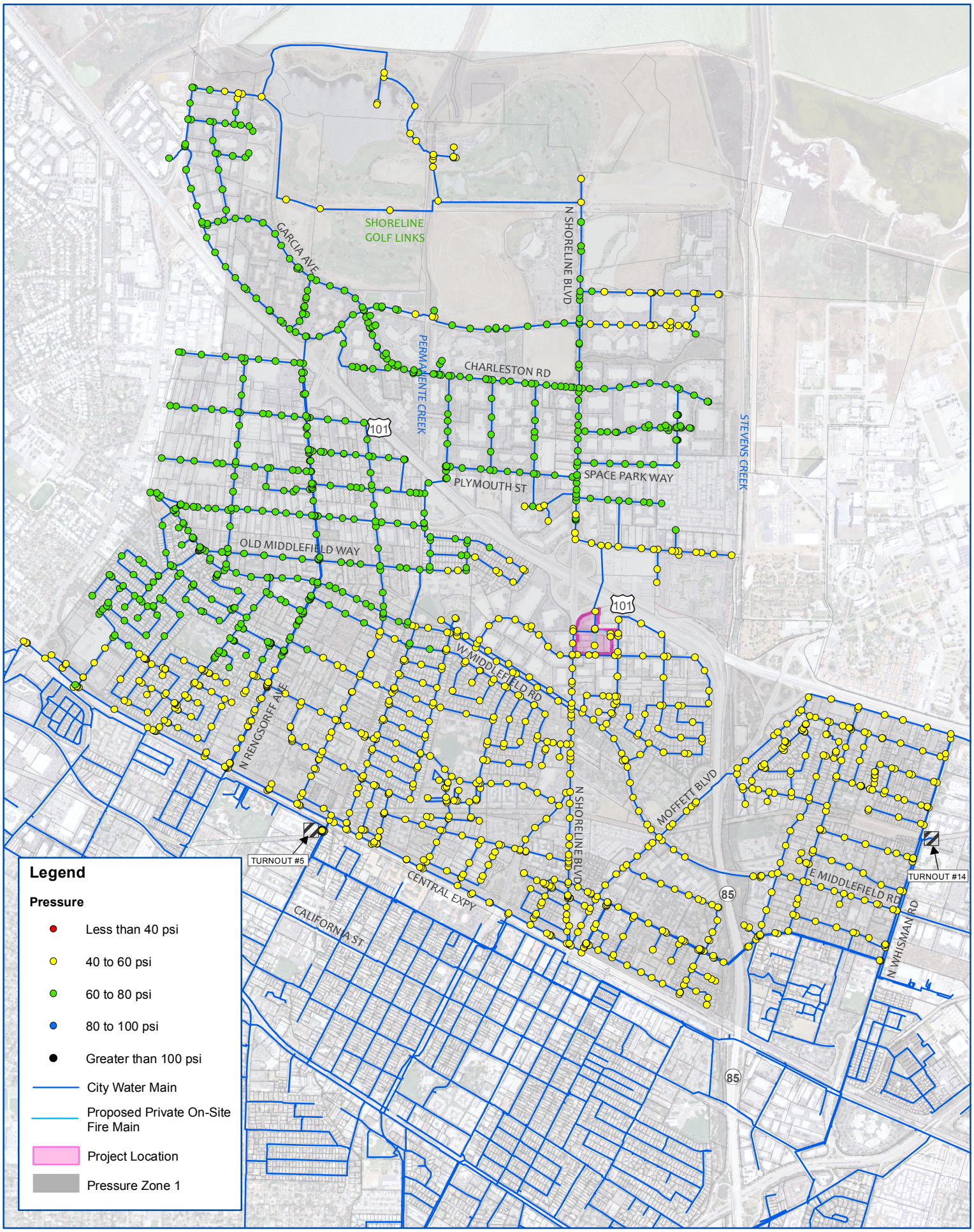

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FIGURE B-7: **Peak Hour Demand (PHD) - With Project**

Water System Model - Existing with Shoreline/101 CIP Condition

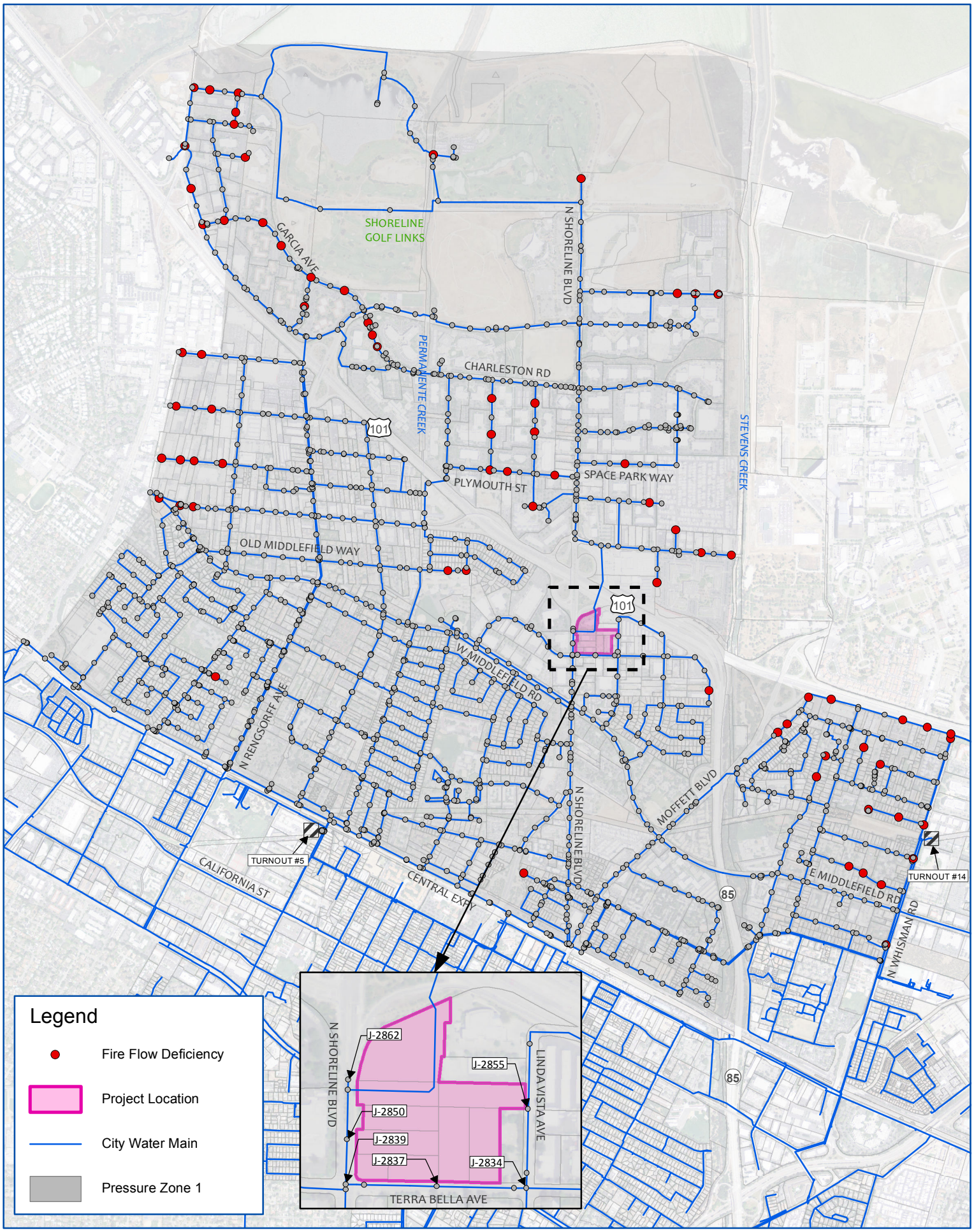

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FIGURE B-8: **Fire Flow Analysis - Without Project**

Water System Model - Existing with Shoreline/101 CIP Condition

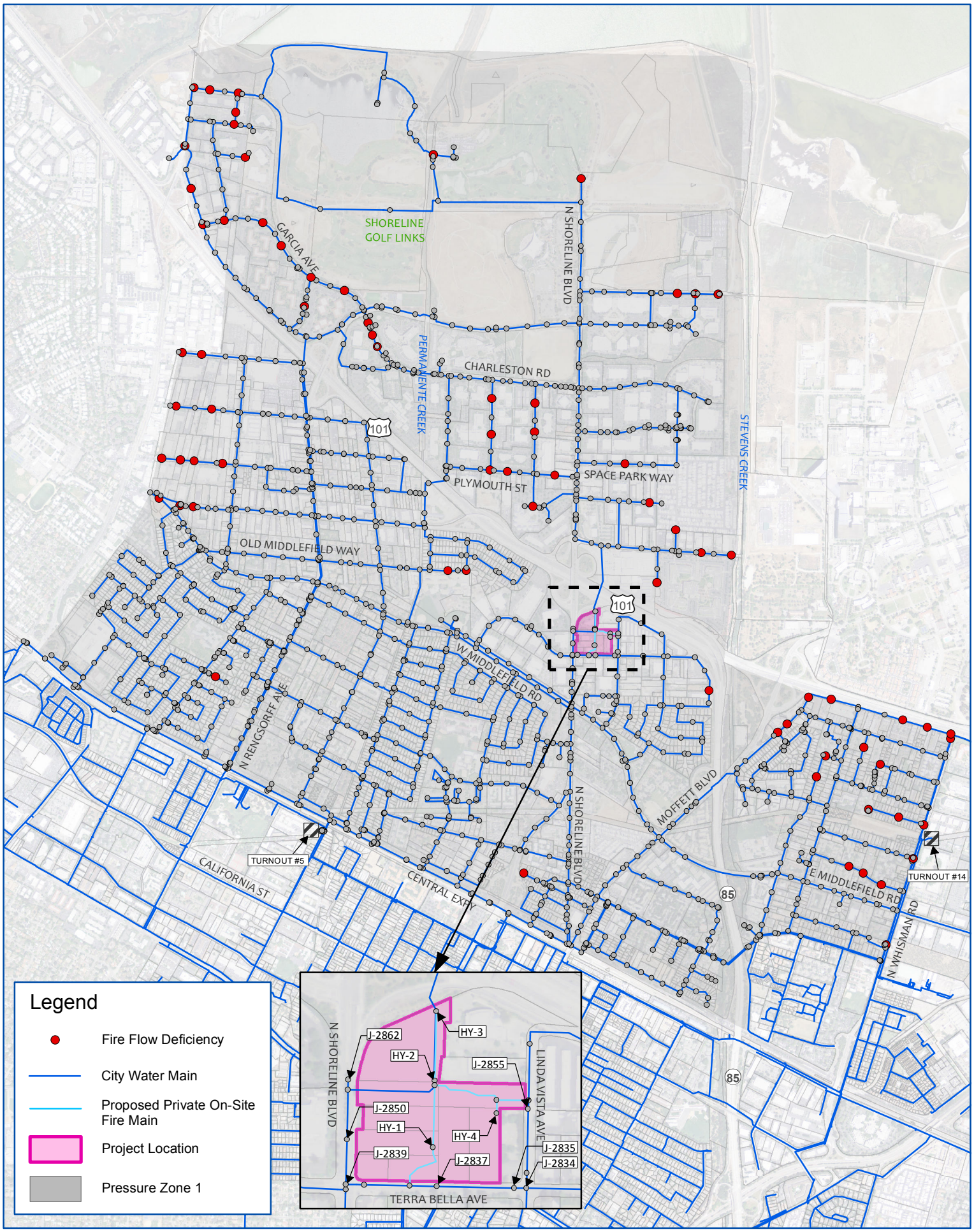

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FIGURE B-9: **Fire Flow Analysis - With Project**

Water System Model - Existing with Shoreline/101 CIP Condition

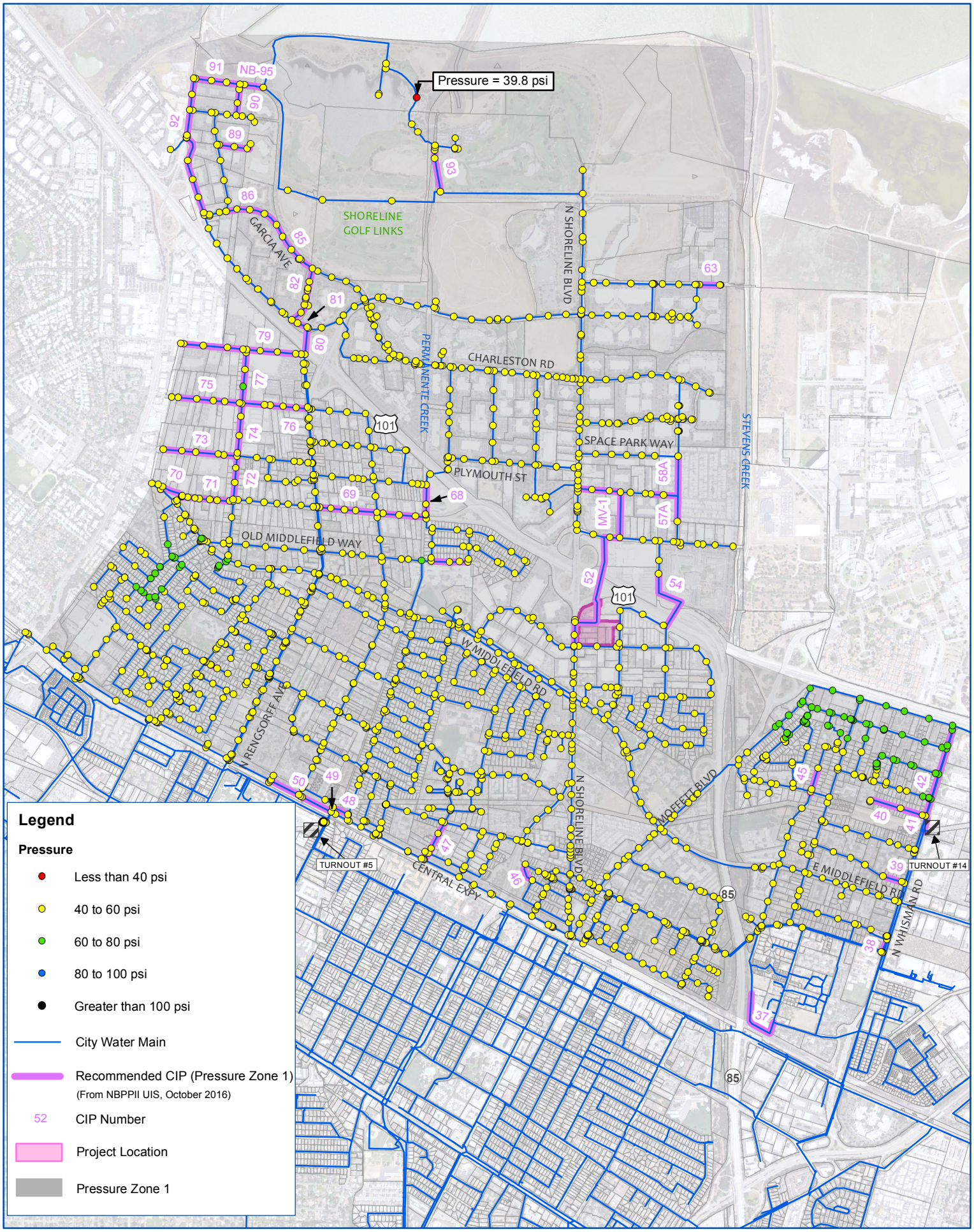

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FIGURE B-10: **Peak Hour Demand (PHD) - Without Project**
Water System Model - Future Cumulative Condition

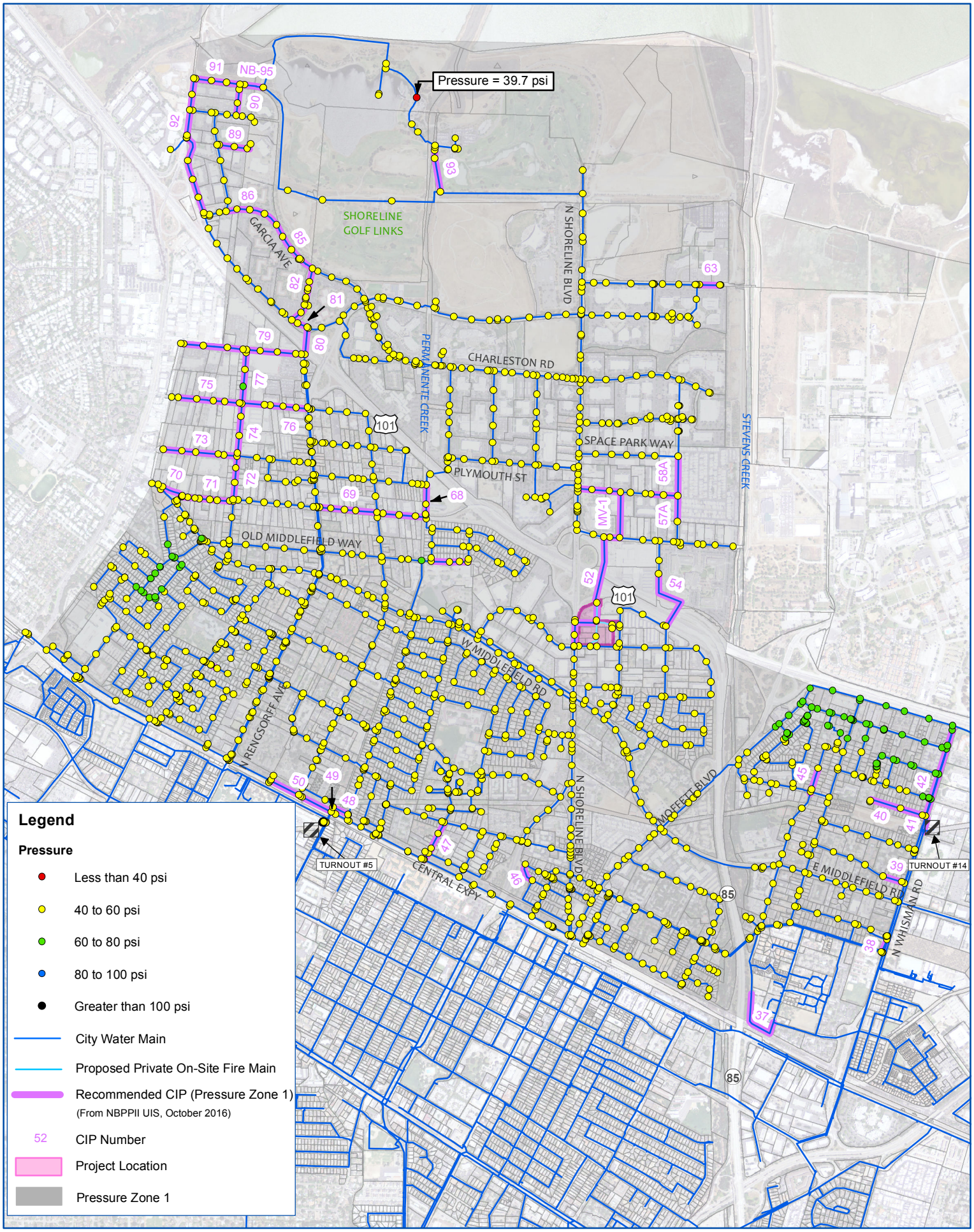

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FIGURE B-11: **Peak Hour Demand (PHD) - With Project**

Water System Model - Future Cumulative Condition

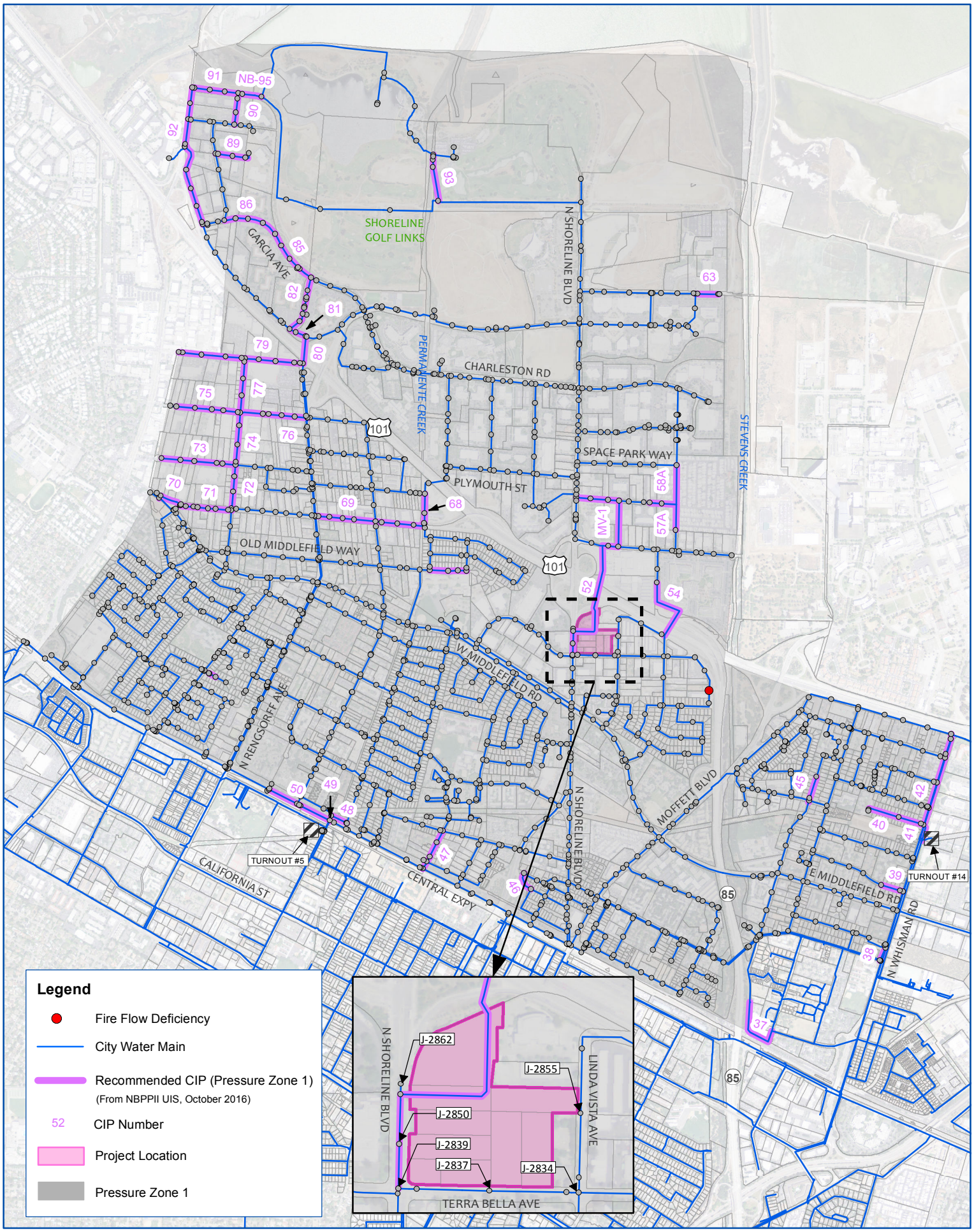

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FIGURE B-12: **Fire Flow Analysis - Without Project**

Water System Model - Future Cumulative Condition

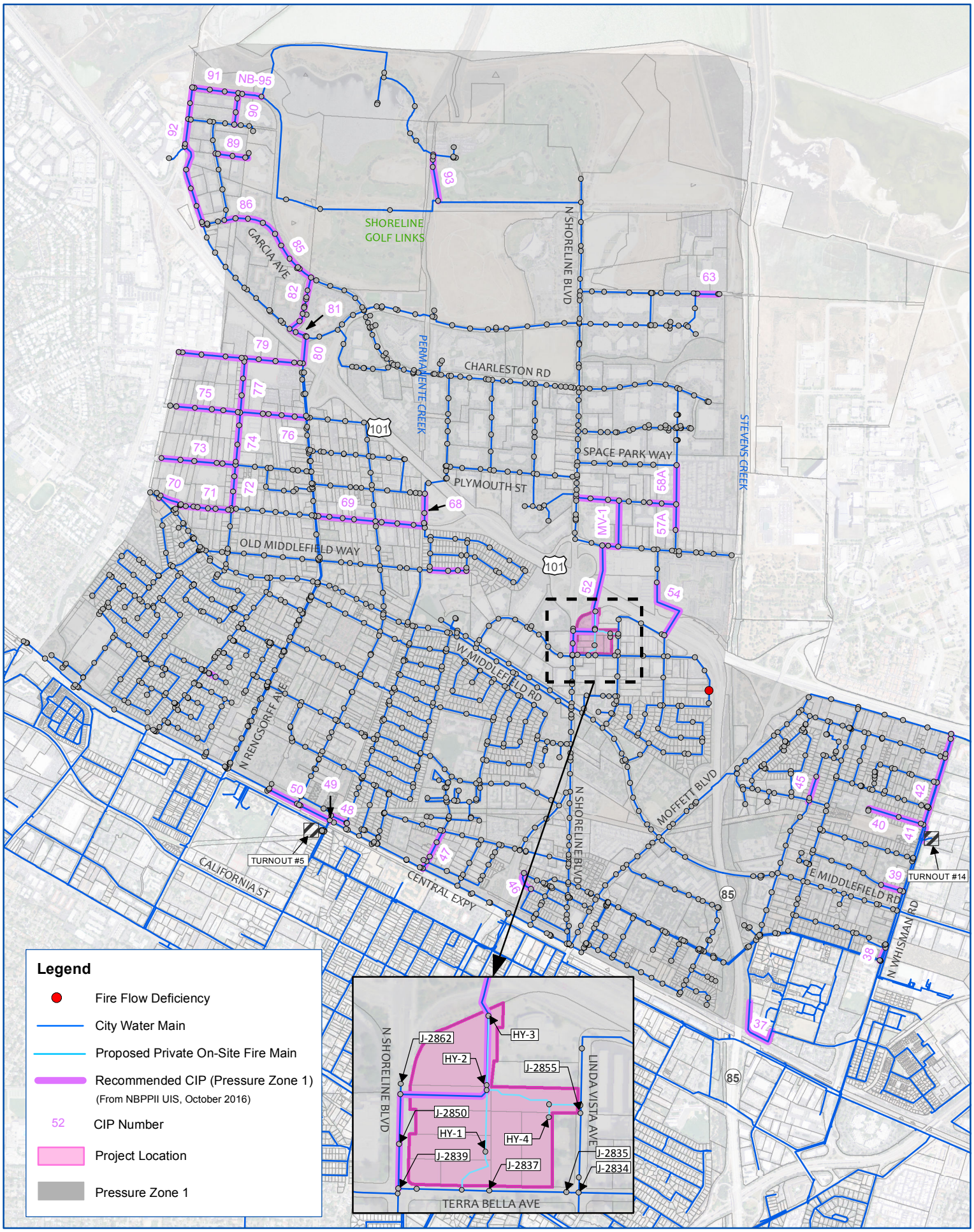

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FIGURE B-13: **Fire Flow Analysis - With Project**

Water System Model - Future Cumulative Condition

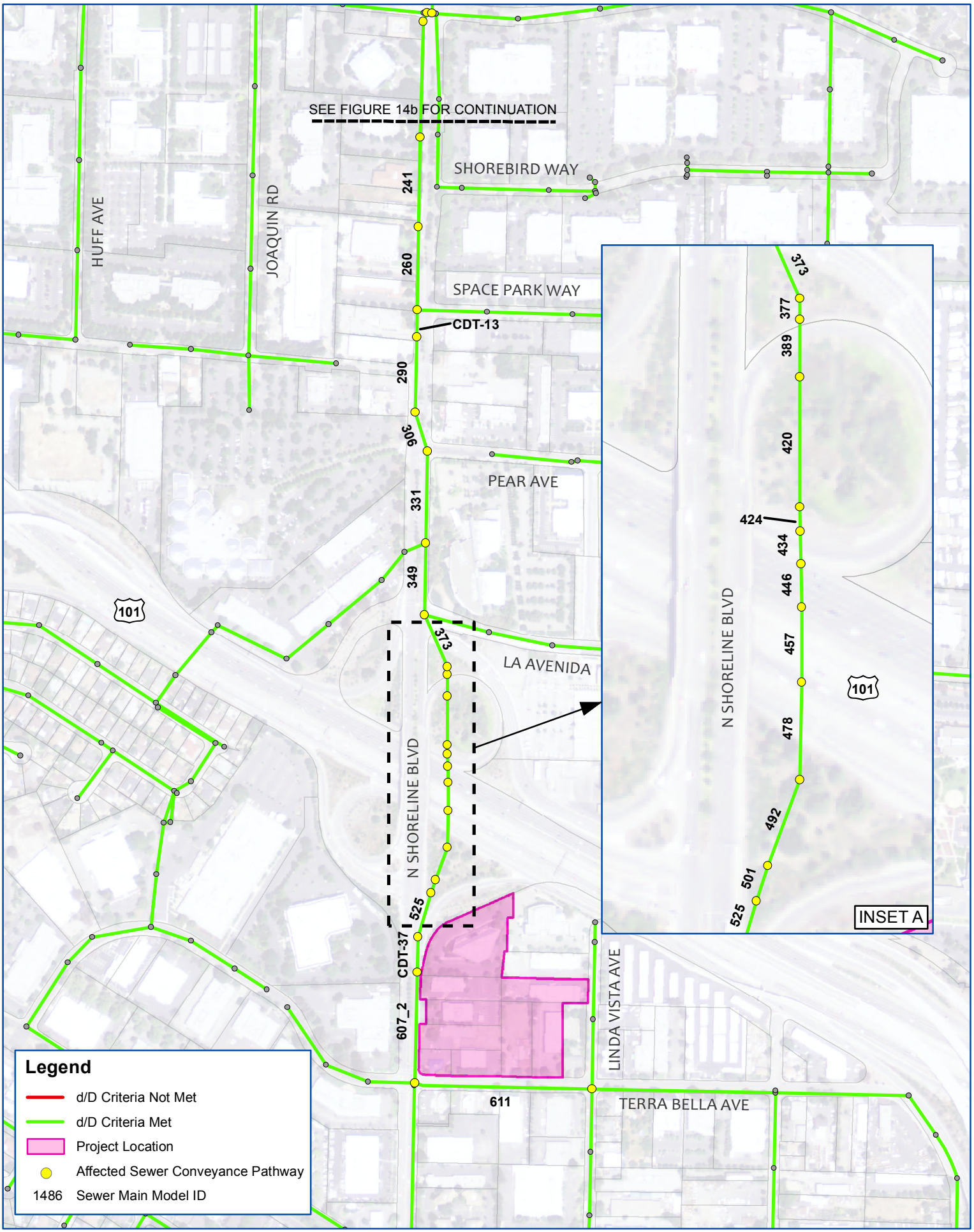

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FIGURE B-14a: **PWWF - Without Project**

Sewer System Model - Existing Condition

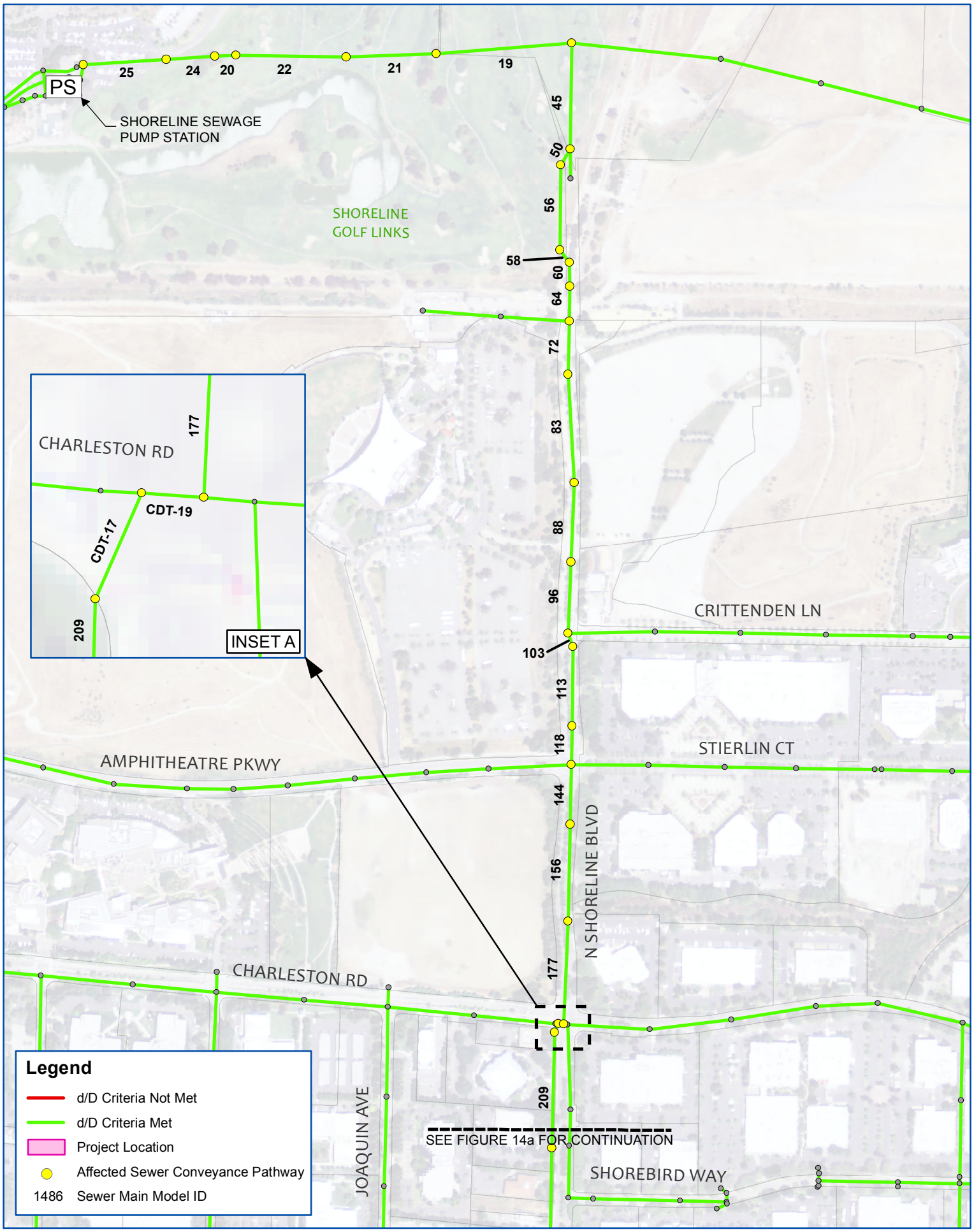

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FIGURE B-14b:

PWWF - Without Project

Sewer System Model - Existing Condition

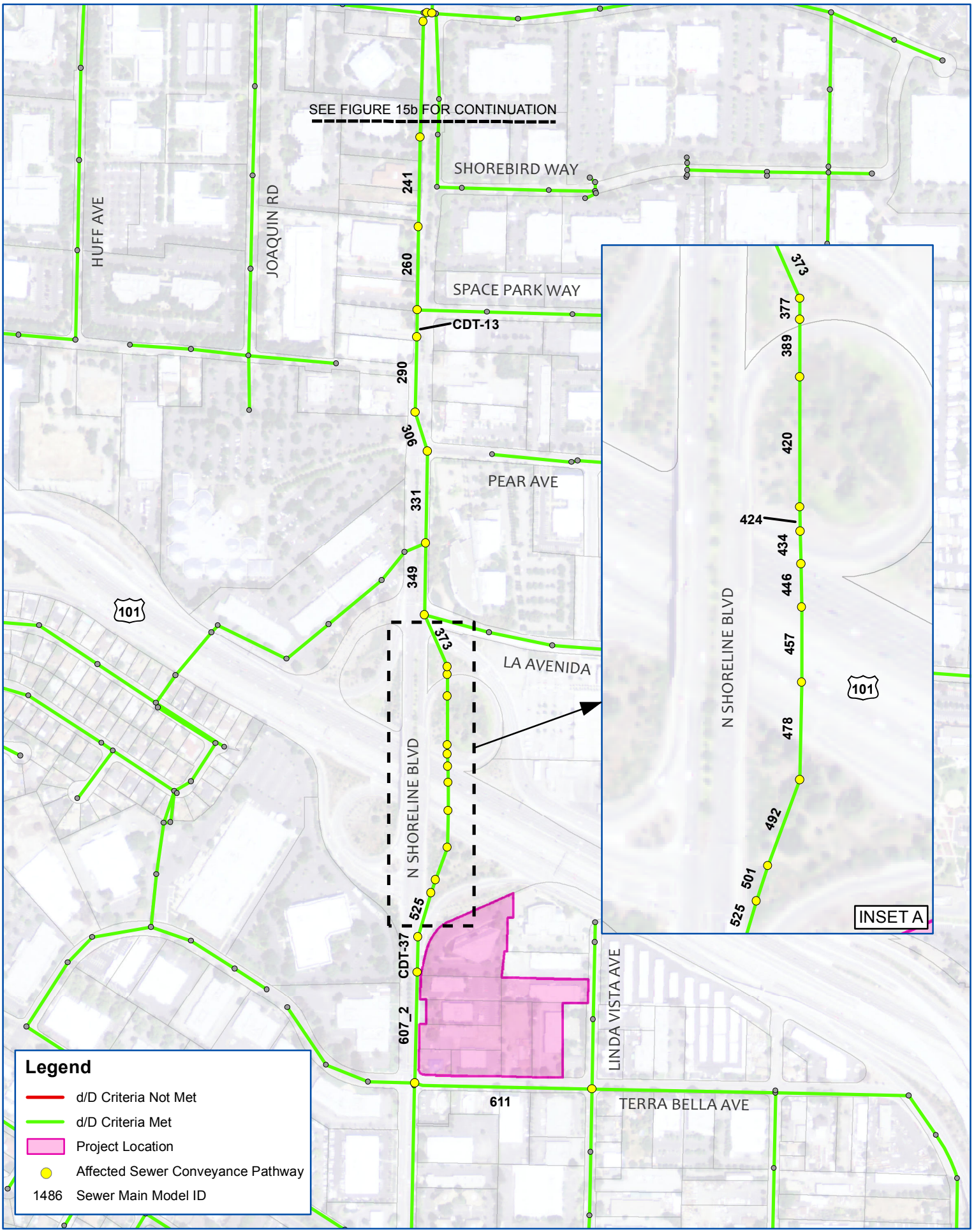

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FIGURE B-15a:

PWWF - With Project

Sewer System Model - Existing Condition

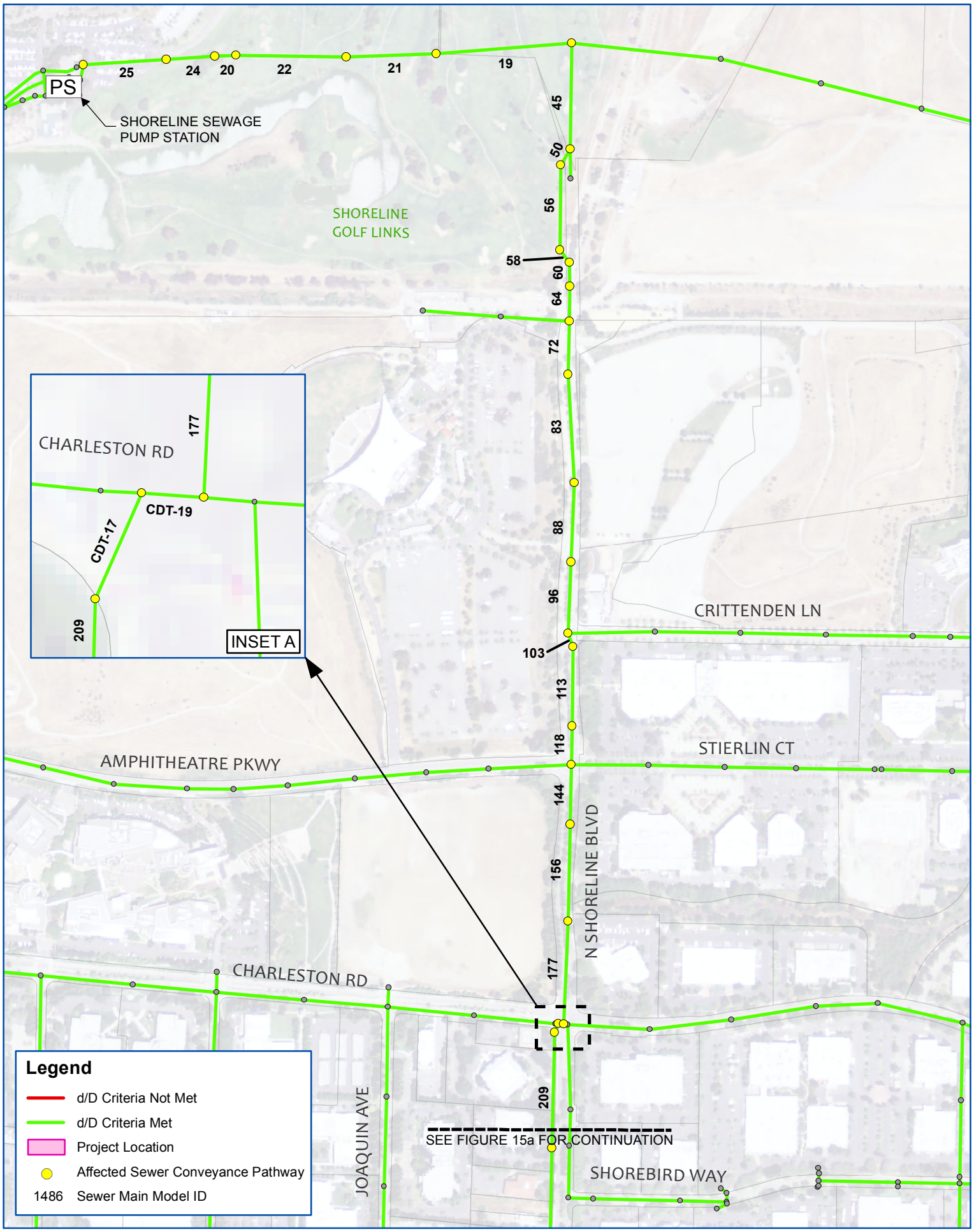

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FIGURE B-15b:

PWWF - With Project

Sewer System Model - Existing Condition

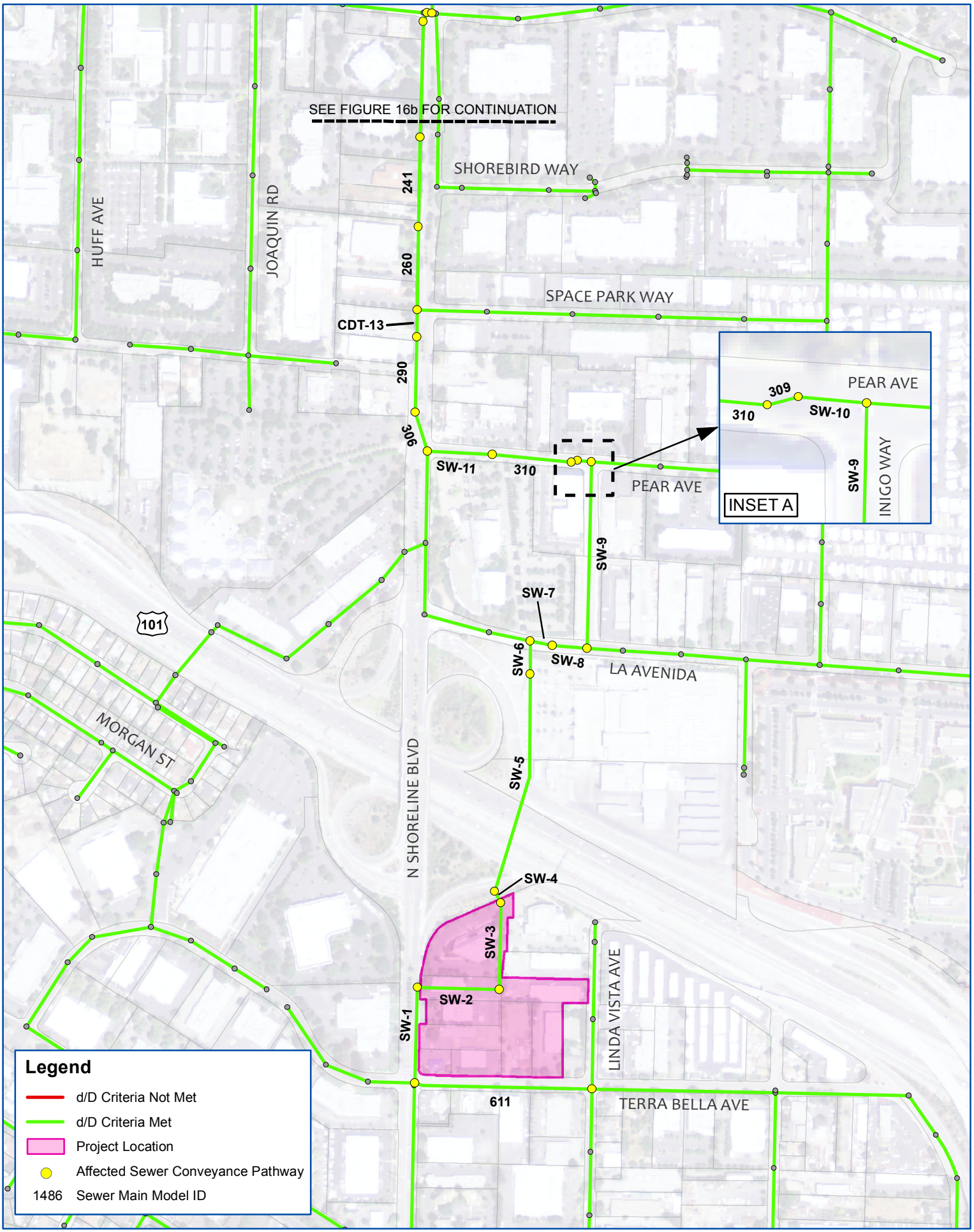

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FIGURE B-16a: **PWWF - Without Project**

Sewer System Model - Existing with Shoreline/101 CIP Condition

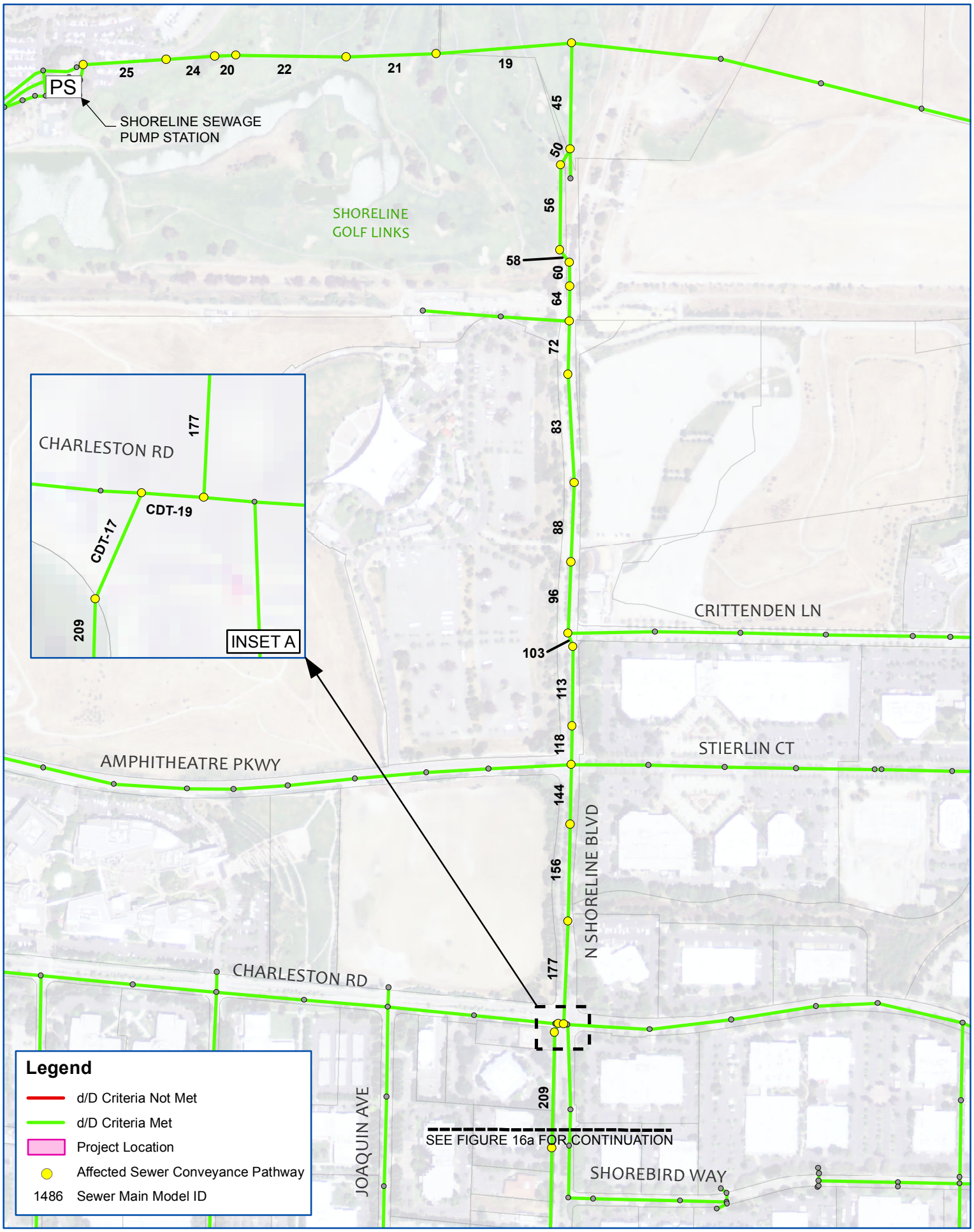

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FIGURE B-16b: **PWWF - Without Project**

Sewer System Model - Existing with Shoreline/101 CIP Condition

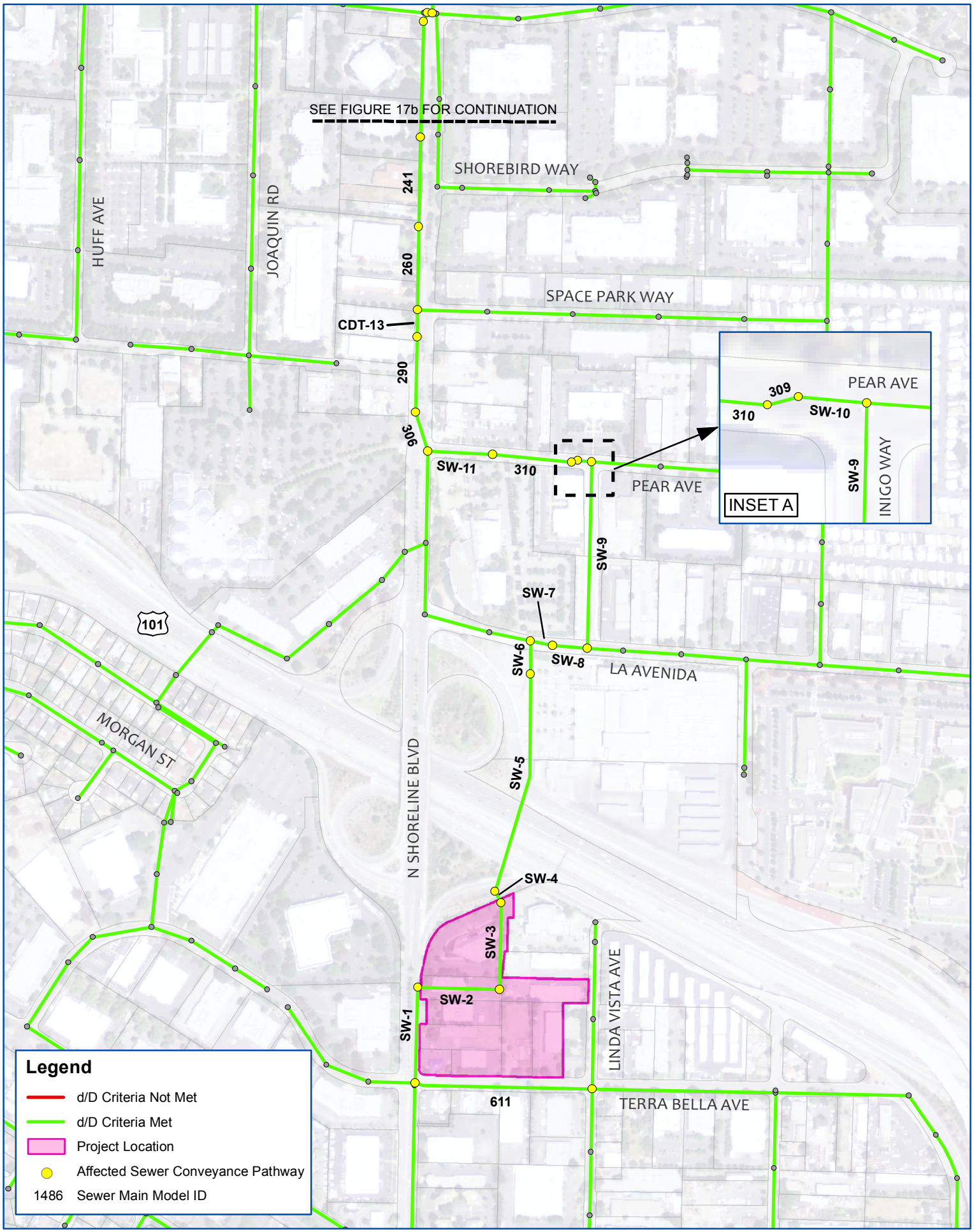

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FIGURE B-17a: **PWWF - With Project**

Sewer System Model - Existing with Shoreline/101 CIP Condition

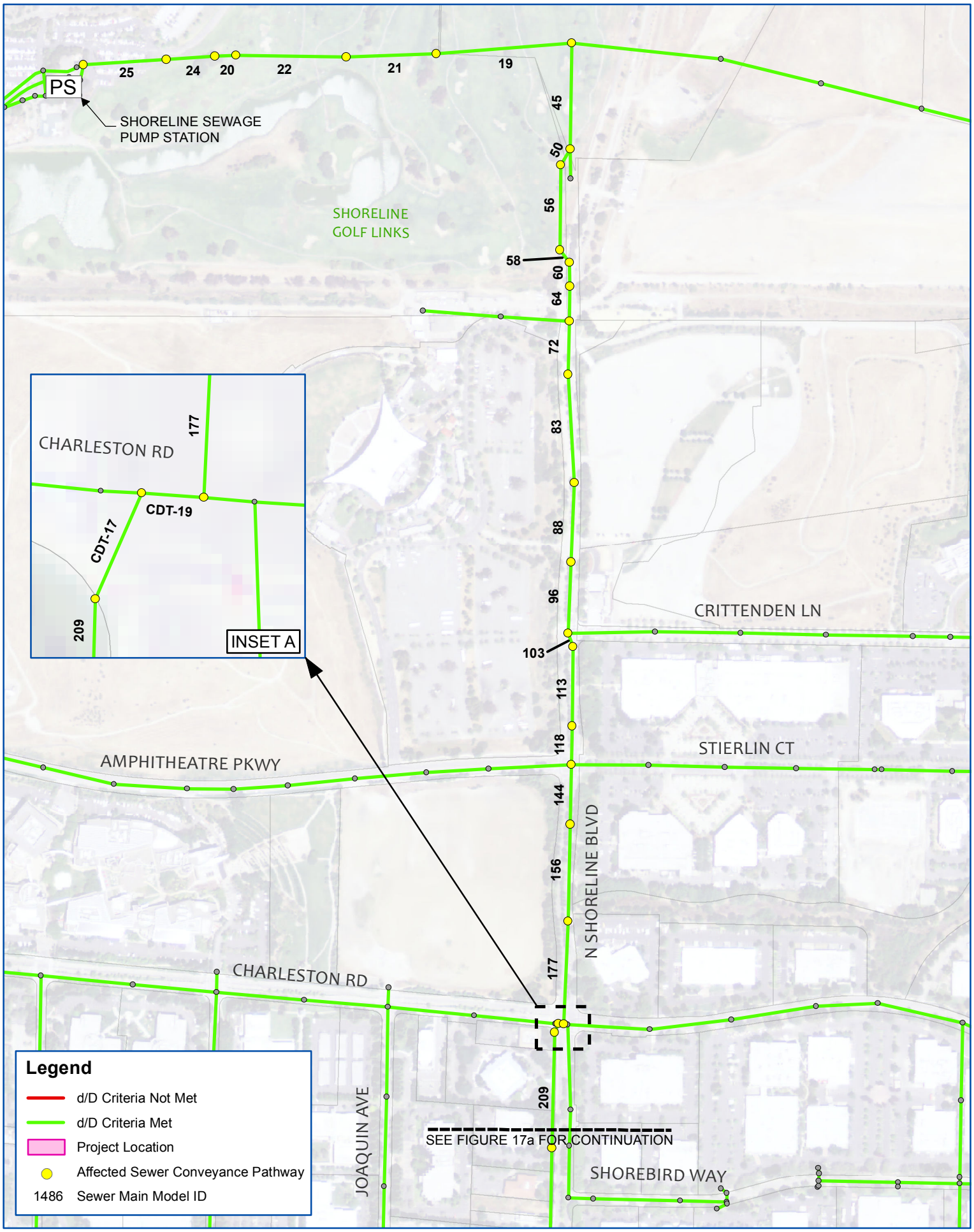

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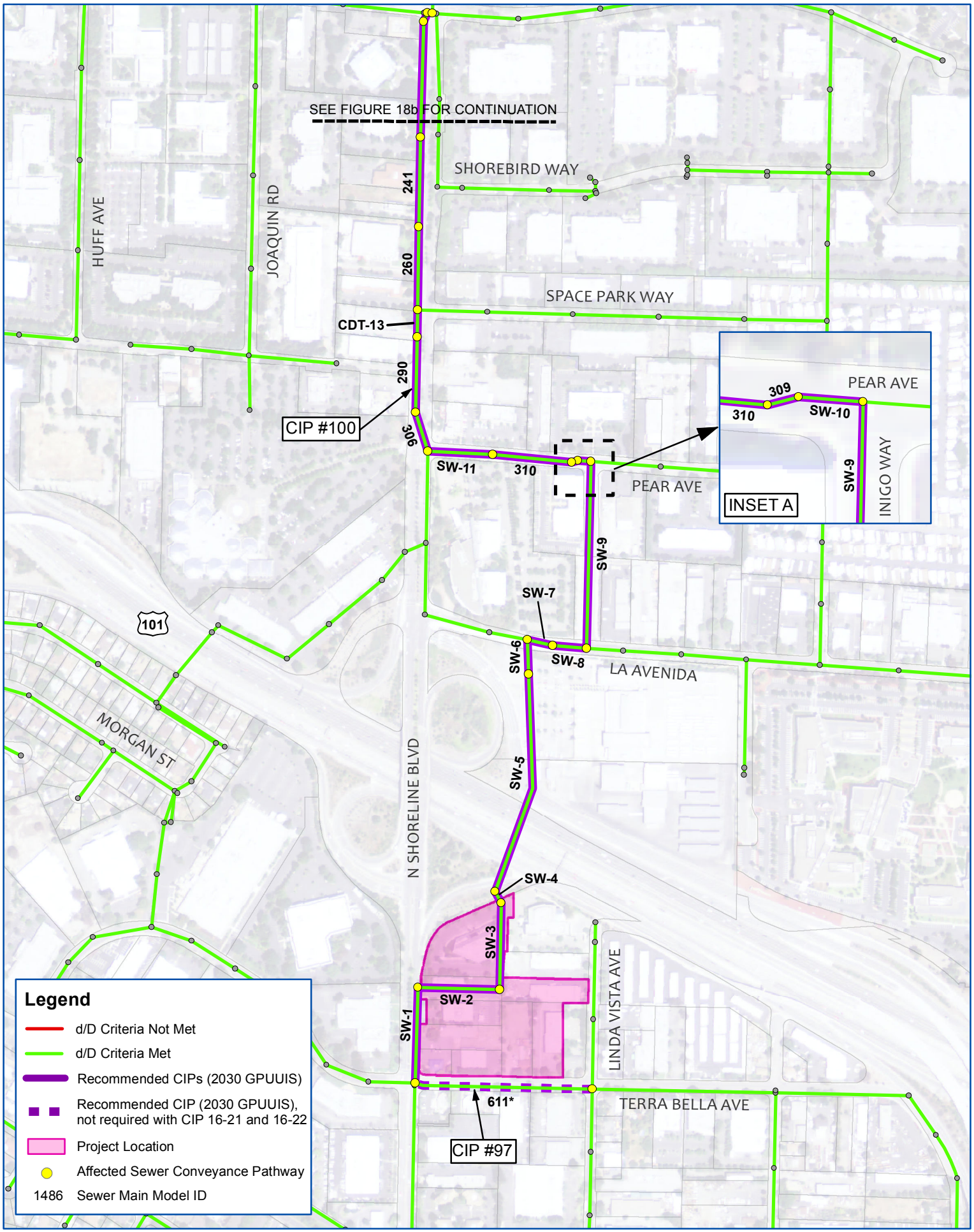
FIGURE B-17b: **PWWF - With Project**

Sewer System Model - Existing with Shoreline/101 CIP Condition



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0 250 500 Feet

FIGURE B-18a: **PWWF - Without Project**

Sewer System Model - Future Cumulative Condition

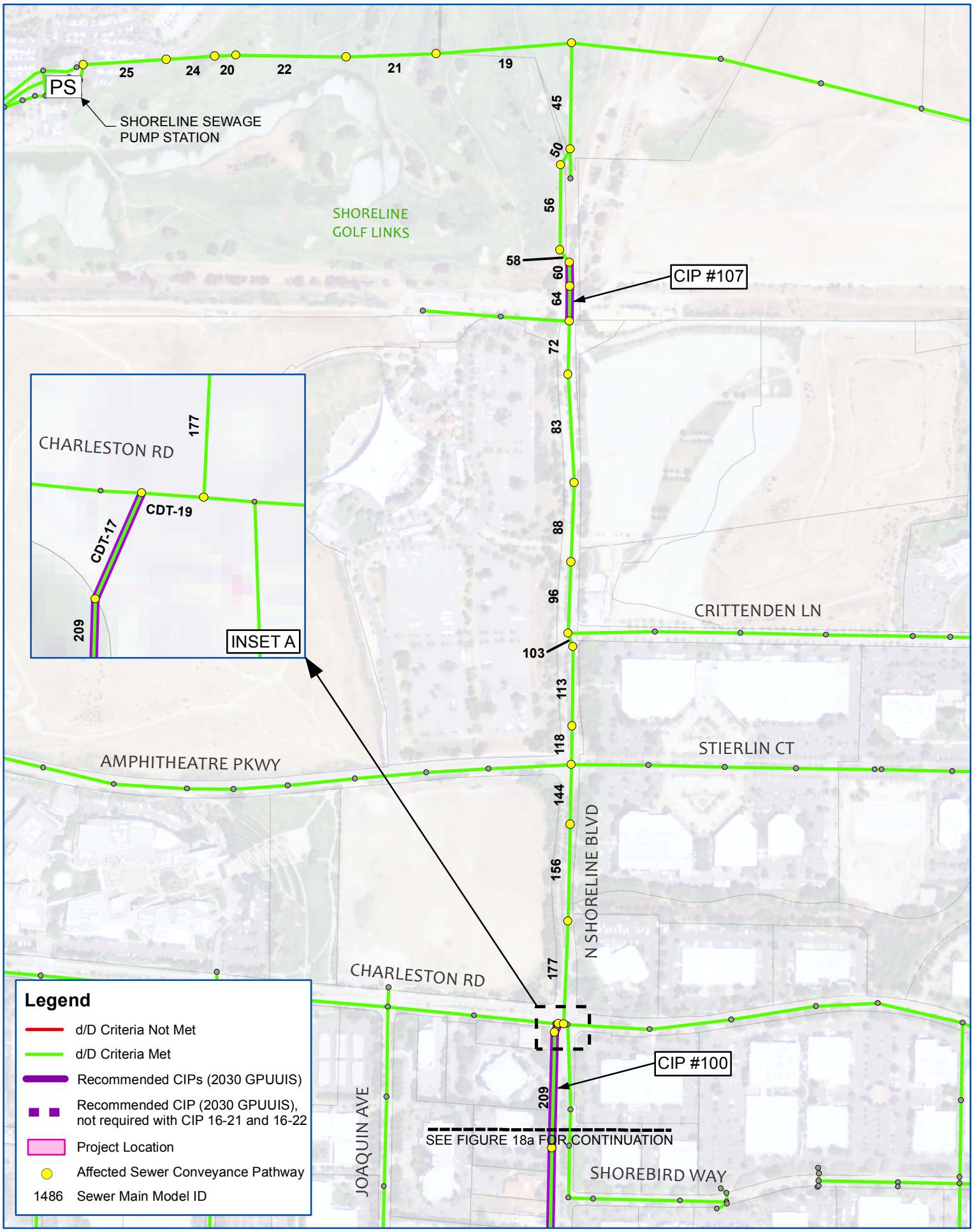

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FIGURE B-18b: **PWWF - Without Project**

Sewer System Model - Future Cumulative Condition

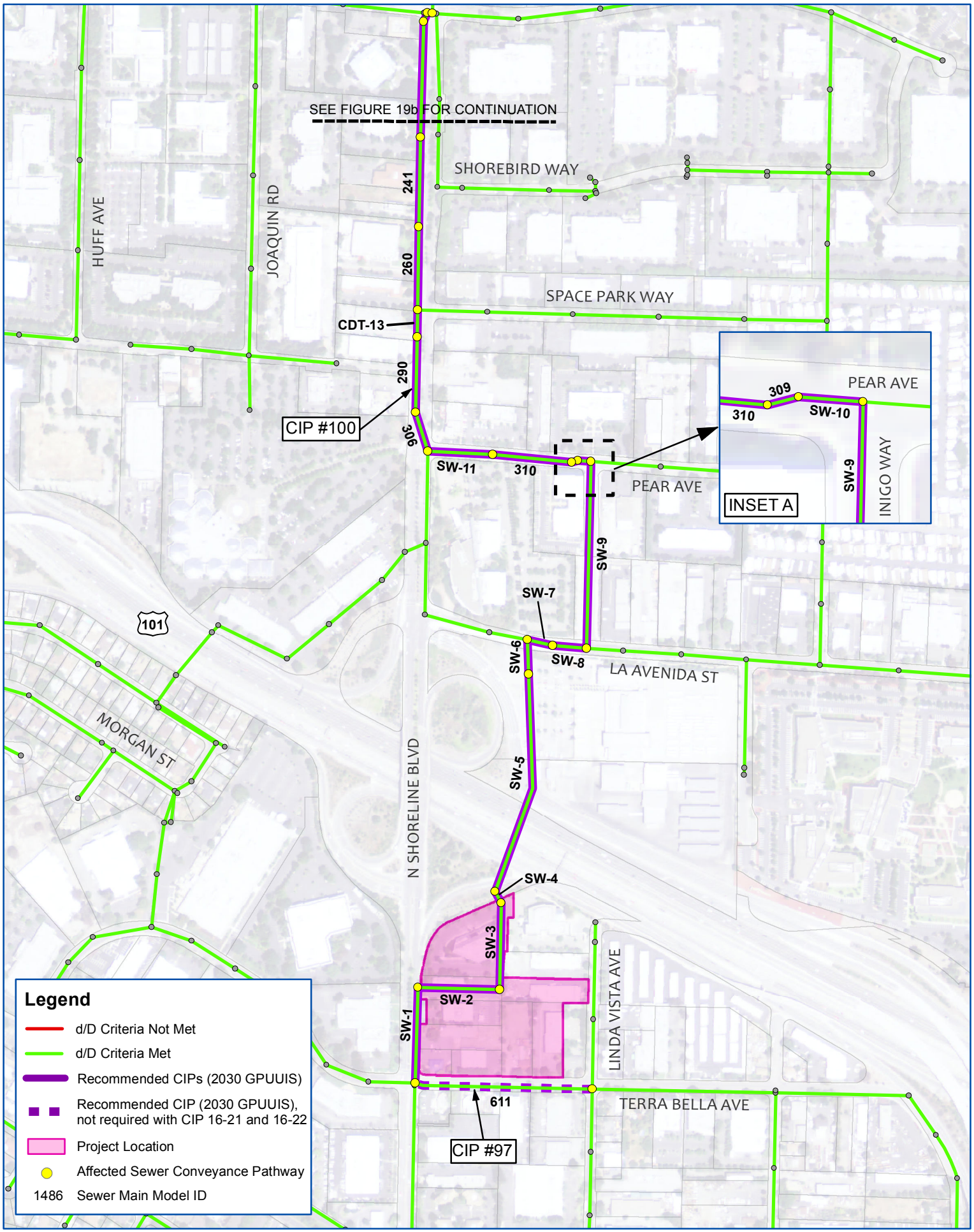

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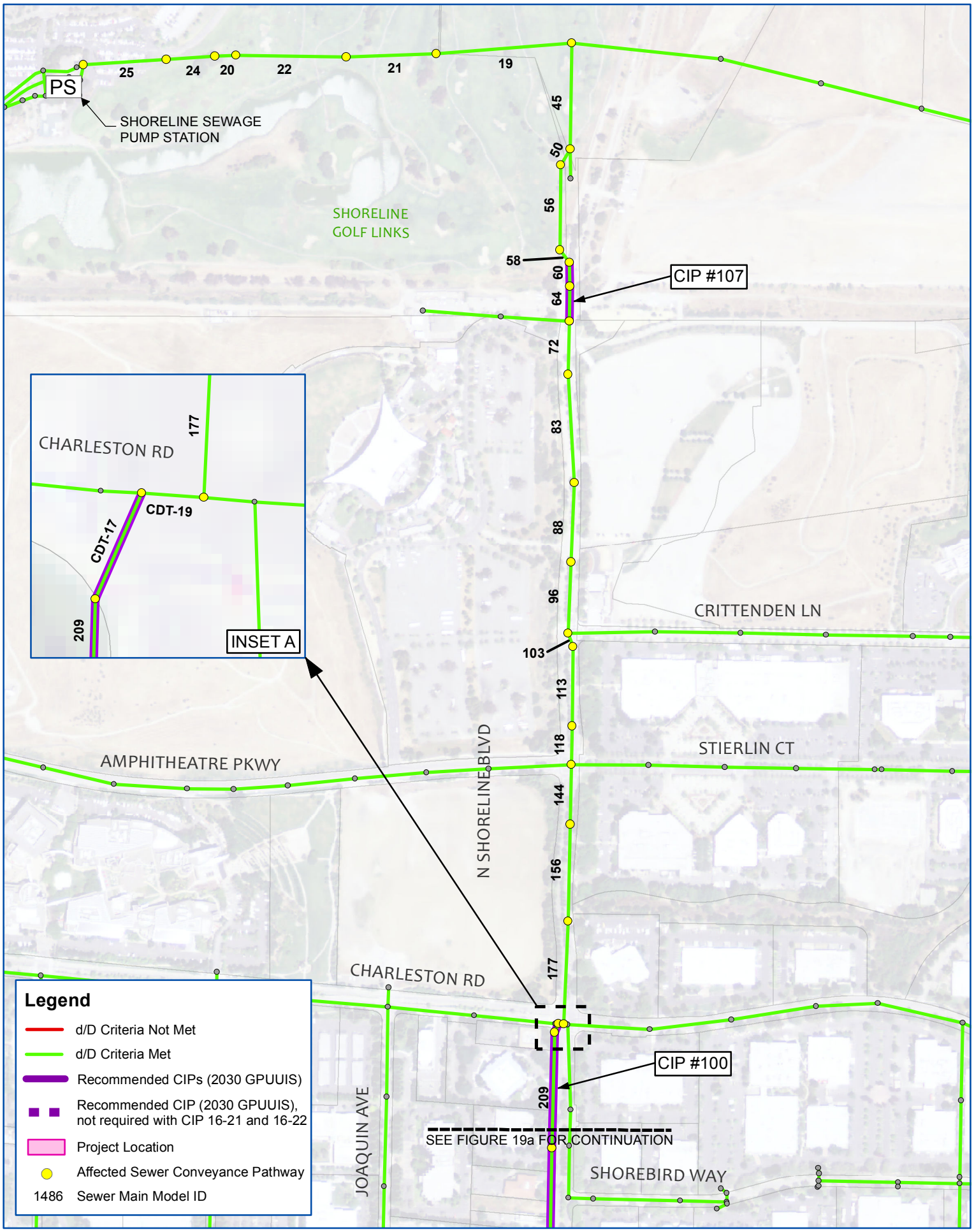
FIGURE B-19a: **PWWF - With Project**

Sewer System Model - Future Cumulative Condition



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0 250 500 Feet

FIGURE B-19b: **PWWF - With Project**

Sewer System Model - Future Cumulative Condition